

Front

Allen, Paul H.

BOOK 1.

Field notes

1936
1931 - 1941

1-374 Panama
375-500 (missing)
501-736 Costa Rica
737-2892 Panama

(Original holograph field data -
986-1328 in pocket at back)

Field Books of

Paul H. Allen
given to Dept. Bot

Nov. 1964

by

Mrs. Dorothy O. Allen

NOTE: THE HUNTER AND ALLEN COLLECTIONS
ARE NUMBERED 1 TO 1022, AND ARE DATED
FROM JANUARY 19, 1935 TO APRIL 24, 1935.
UNFORTUNATELY A BLOCK OF LABELS WERE PRINTED
AT THE MISSOURI BOTANICAL GARDEN, ON WHICH
MY NAME ALONE APPEARS, SO THAT THERE ARE
HUNDREDS OF CITATIONS IN THE FLORA OF IDENTICAL
ALLEN NUMBERS HAVING WIDELY DIFFERENT DETERMINATIONS
USUALLY IN DIFFERENT PLANT FAMILIES. THE GREAT
MAJORITY OF THESE ANNOYING DUPLICATIONS WHICH, OF
COURSE, FALL IN THE NUMERICAL SERIES FROM
1 TO 1022, ALTHOUGH THERE ARE A FEW OTHERS,
WHICH ARE APPARENTLY THE RESULT OF COPYING
MY COLLECTING NUMBER INCORRECTLY ON TO THE
LABEL. ANY ALLEN COLLECTION IN THE FLORA OF
PANAMA COLLECTED PRIOR TO OCTOBER, 1936 IS IN
REALITY A HUNTER & ALLEN SERIES NUMBER.

PAUL H. ALLEN - PLANTS OF PANAMA + Costa Rica

OCTOBER - 1936

TO

FEBRUARY - 1939

No. ^s 1 TO 1633

- 1/ Grass on gravel banks along river/
2. Shrub 1M along streams - fruit burnt orange
3. Sellagenella - epiphytic - along streams
4. Marantaceae? Dark wet forest/
5. Gesneriaceae? epiphytic vine - large trees - fruit orange
6. Fungi - dark brown/
- 7 Fern - epiphytic
- 8 Fern - terrestrial 1 1/2 M/
- 9 Palm - inflorescence among the leaves - 8 M. - slender spiny trunk
fruit orange red
- 10 Fungus - pale orange
- 11 Shrub 1 M - along streams - flowers cream
- 12 Fungus - brown
- 13 Fungus - black
- 14 Tree fern - trunk about 1 1/2 M
- 15 Fern - terrestrial
- 16 Fern - terrestrial
- 17 Orchid - oncidium - lip bright yellow (Iridifolium)
- 18 Burmanniaceae? - saprophytic - flowers white
- 19 " " - flowers blue
- 20 Fern
- 21 Tree - 7M - Euphorbiaceae? - flowers pink *Mabea occidentalis* Benth.
- 22 Shrub 1 1/2 M - fruit white
- 23 Tree 10M - Inga? - common along river - very fragrant - odor lilac *Pithecellobium*
- 24 Shrub - 1M - on rocks in center and sides of river
- 25 Shrub - 1m - fruit cherry red - rubiaceae?
- 26 Tree - 4M
- 27 Shrub - 1M - fruit cherry red
- 28 Sellagenella
- 29 Lichen
- 30 Cuphea - utriculosa? - rocks in streams
- 31 Epiphytic - peperomia?
- 32 Pelliciera - rhizophorae? - mangrove swamps - 5M - flowers white
- 33 Cyperaceae - gravel banks along streams
- 34 Entada - polystachia? - leguminosae - large unarmed vine
- 35 Amygdalaceae? - tree 8M - fruits greenish yellow
- 36 Fern
- 37 Shrub - 1M - Rubiaceae - fruits white
- 38 Peperomia - epiphytic
- 39 Fern - epiphytic
- 40 Fern - terrestrial
- 41 Fern - epiphytic
- 42 Palm - 5M - fruit cluster among leaves
- 43 Fern
- 44 Lichen
- 45 Fungus
- 46 Fern - epiphytic
- 47 Orchid - epidendrum? - flowers pale orange - epiphytic
- 48 Large vine in tree tops - Bignoniaceae
- 49 Long scandent fern - often attaining the length of 10'
- 50 Orchid - flowers yellow - sepals and petals greenish toward base -
lip striped maroon
- 51 Orchid - Trichopilia - flowers white with cream throat to lip
- 52 Malvaceae - shrub - 3M - flowers scarlet
- 53 Orchid - pleurothallis - flowers ~~scarlet~~ pale lavender
- 54 Orchid - pleurothallis - flowers light tan
- 55 Fern - polypodium - on rocks along streams
- 56 flowers greenish white
- 57 flowers white veined green
- 58

- 58 Flowers white - epiphytic
- 59 flowers light yellow - fragrant
- 60 Epiphytic
- 61 flowers pale ~~yellow~~ yellow
- 62 epiphytic
- 63 Flowers pale yellow
- 64 flowers flesh pink

65

66

- 67 Fruit globose - dull red

68

69

70

~~71~~

El Valle de Anton - Cocle Province - 12-22-36 about 800 meters

- 71 Small tree 2 1/2M - flowers white with yellow stamens
- 72 Small tree 3M - fleshy calyx - pink in color
- 73 Shrub 1 1/2M - flowers rose purple
- 74 Terrestrial - among rocks along streams 9 flowers white
- 75 Tree 4M - flowers grayish white
- 76 fkiwers clear cream - fragrant
- 77 Shrub 2M - flowers yellow
- 78 Vine - flowers greenish yellow
- 79 Shrub 2M - flowers yellow
- 80 Shrub - 2M - flowers white
- 81 Shrub 3M - flowers pale lavender
- 82 Water herb - on rocks in fast water
- 83 Flowers lavender - along streams
- 84 Herb - on wer banks - flowers pale pink - minute
- 85 Shrub - 2M - flowers lavender
- 86
- 87
- 88
- 89
- 90 Small tree - fruit burnt orange - 3M
- 91 Shrub 2M - flowers scarlet - fruit waxy white
- 92 Tall herb 2M - flowers scarlet
- 93 Shrub 2M - flowers royal purple
- 94 flowers pink
- 95
- 96 Shrub 2M - flowers pink
- 97 Shrub 3M

El Valle de Anton - lower Rio Anton Dec/30, 1936 - 800M

- 98 Sedge
- 99 Small slender herb - flowers lavender
- 100 Small tree 4M
- 101 Shrub 2 1/2M - flowers white
- 102 Tree 10M - flowers white
- 103 Large woody vine
- 104 Herb - fruits rose red
- 105 Flowers white
- 106
- 107 Sedge
- 108 Tree 10M - stamens pink
- 109 Flowers lavender
- 110 Tree 10M - flowers scarlet

~~111~~

- 111 Flowers white
- 112 Shrub 1 1/2M - flowers white
- 113 Shrub 1 1/2M - ~~flowers~~ fruits dark blue
- 114 Tree 10M - flowers pink
- 115 Shrub 3M - flowers yellow
- 116 Lichen - on rocks
- 117 " on rocks
- 118 Shrub 2M - fruits greenish black
- 119 Grass 2M - slender bamboo like
- 120 Eucharis - perianth segments stiff - waxy - white
- 121 Flowers pale yellow - shrub 1 1/2M
- 122 Lichen - on stones
- 123 Fungus
- 124 Fungus
- 125 Tree 4M - bracts ~~orange~~ orange

Rio Mata Ahogado - Cocle Province - Elevation 350M - 12-31-36

- 126 Tree 15M - flowers and bracts white
- 127 On rocks exposed to full sun
- 128 Grass
- 129 Grass
- 130 Terrestrial - flowers white
- 131 Tree 15M - flowers golden yellow - flowers without leaves
- 132 On rocks in full sun
- 133 On boulders along streams
- 134 Epiphytic
- 135
- 136
- 137
- 138
- 139 Tree 6M - along rivers
- 140
- 141
- 142 Bamboo 3M
- 143
- 144 Tree 20M - (calyx maroon - red) stemens pale yellow
- 145 Volcanic ash cliffs over rivers
- 146
- 147

Trail between Canazas and the foot of the Cordillera Central
2-8-37 - 300 to 600M - Headwaters of the Rio Cañazas

- 148 Tree 6M
- 149 Called Botoncillo - used medicinally in the treatment of tumors
- 150 Tree 12M
- 151 Grass - common on high dry ridges
- 152 Grass - a tall species found in brushy thickets - 1 1/2M
- 153 Grass 2M
- 154 Tree 10M - stamens straw yellow
- 155 Small tree 3M - flowers greenish yellow
- 156 Small tree 2 1/2M - fruits pale orange
- 157 Scandent on small bushes 2M
- 158 Tree 15M - along streams - fruit old rose
- 159 Vine
- 160 Tree 10M
- 161 Tree 5M
- 162 Tree 15M
- 163 Tree 10M - flowers white

- 164
165 Shrub - flowers pink - fruit dark purple - 1 1/2M
166
167
168 Flowers yellow - tree 10M
169 Fern - dry rocky banks
170 Small tree 3M - flowers white
171 Fern
172 Fern - dry rocky banks
173 " " " "
174 Fern - rocks along streams
175
176 Bamboo 5M
177 Tall herbaceous plant 4M - flowers pale lavender
178 Small herb - ~~fruits bright blue~~ flowers white
179 Flowers yellow
180 Flowers scarlet - shrub 1 1/2M
181 Small tree 5M
182
183 Small herb - fruit bright blue
184 Vine - flowers white
185 Small tree 2M
186 Small tree 3M - flowers scarlet
187 Tall brushy herb 2 1/2M - flowers white
188 Small tree 4M
189 Tree 7M
190 Flowers white
191 Vine
192 Vine
193 Fern
194 Herb - flowers pale lavender
195 Orchid - flowers scarlet - epiphytic
196 Bracts coral red
197 Vine
198 Tree 6M - flowers green
199 Tree 15M - fruit edible
200 Vine - flowers white
201 Small tree 3M - flowers yellow
202 Shrub 2 1/2M
203 Aeroid
204 Small tree 3M
205 Vine
206 Scandent shrub - 3M
207 Fern
208 Fern

North Rim of El Valle de Anton - Province of Cöcle - 2-14-37
1000M Very cool and dark forrest

- 209 Sedge 1 1/2M
- 210 Sedge
- 211 Shrub 2M - along streams - flowers rose
- 212 Flowers scarlet - along streams
- 213 Flowers white
- 214 Small shrub - 1M - fluits bright blue
- 215 Bushy herb - common along streams - flowers pink
- 216
- 217 Herb
- 218 Herb
- 219 Herb
- 220 Scandent Begonia
- 221 " " " " " " " " " " " "
- 222 Epiphytic fern
- 223 Fern - on boulders along streams
- 224 Flowers white 2M - along streams
- 225 Orchid - flowers pale yellow
- 226 Epiphytic
- 227 Fern
- 228 Fern
- 229 Fern
- 230 Fern
- 231 Fern
- 232 Fern
- 233 Fern
- 234 Terrestrial - flowers rose red
- 235 Vine
- 236 Orchid - flowers pale yellow
- 237 Shrub 2M - flowers white
- 238 Flowers white

Pinogana - Yavisa Trail - Darien Province - 3-17-37 - 15M

- 239 Tall composit 2M - flowers yellow - used by natives for a fever
remedy - bitter tea made from leaves
- 240 Fungus - underside orange red
- 241 Herb - flowers yellow
- 242 Fungus
- 243 Fungus
- 244 Tree 5M - flowers cream
- 245 Grass
- 246 Tree 8M - fruit dull red
- 247 Tree 8M
- 248 Fruit orange
- 249 Tree 6M - fruit orange

- ~~North Rim of El Valle de Anton~~
- 250 Tree 7M - flowers tiny - green
 - 251 3M
 - 252 Epiphytic piper
 - 253 Fungus
 - 254 Fungus
 - 255 Costus 2 1/2M - bracts orange red
 - 256 Shrub 2M - flowers rose
 - 257 Shrub 3M - flowers bright yellow
 - 258 Fern - terrestrial
 - 259 Heliconia 3M - flowers scarlet
 - 260 Tree 5M
 - 261 Tree 50M - flowers cream stamens ornage
 - 262 Epiphytic
 - 263 Small tree 10M - flowers tiny - green
 - 264 Flowers white - stamens ornage
 - 265 Tree 50M - flowers lavender
 - 266 Small tree 3M - flowers and stipales rose red
 - 267 Vine - flowers uellow
 - 268 Tree 4M - fruit pink
 - 269 Tall herb 2M - flowers yellow - bracts dull red
 - 270 Tree 7M - roots used by indians to deaden pain - leaves used as snake bite remedy/
 - 271 Vine - flowers lavender
 - 272 Tree 50M - flowers white
 - 273 Tree 30M - flowers white - borne on old wood
 - 274 Vine - flowers lavender
 - 275 Small tree - 4M 1/2 flowers yellow
 - 276 Slender tree 20M "Cauchó" rubber
 - 277 Tree 60M - along banks of Rio Chucunague - fruit pendulus
 - 278 Epiphytic cactus - flowers pink tipped lavender
 - 279 Vine woody - tops of tall trees - flowers lavender
 - 280 Tree 15M - flowers red
 - 281 Tree 4M - flowers blood red
 - 282 Tree 10M "Coco del Monte"
 - 283 Tree 25M - flowers white
 - 284 Tree 4M - fruits purple
 - 285 Epiphytic herb 3/4M - bracts scarlet
 - 286 Tall herb - 1 1/2M
 - 287 Sellaenella - along dark wet trails
 - 288 Tree 2M - flowers white
 - 290 Epiphytic aeroid - fruit orange
 - 291 Vine
 - 292 Vine - flowers white and purple
 - 293 Tree 15M
 - 294 Tree 10M - spreading - flowers purple
 - 295 Fungus
 - 296 Tree 40M
 - 297 Tree 30M
 - 298 Tree 10M - flowers white
 - 299 Tree 60M

~~North Rim of El Valle de Anton - Province of Coclé - 2-14-37~~
~~1000M - Very cool and dark ferrest~~

Lowlands of

Boqueron - Chiriqui Province - 4-2-37 40M

- 300 - Clump bamboo 16M
- 301 Flowers white 10M

Trail from Boquete to Finca Lerida 1200 to 1800M 4-4-37

- 302 Tree 20M
- 303 Tree 25M
- 304 Woody vine - flowers yellow

Trail from Bambito to Cerro Punta 1400 to 2300M 4-6-37

- 305 Parasitic on roots of oak
- 306 Scandent climbing 30ft/ or more in trees
- 307 Tree 8M - flowers yellow
- 308 Tree 12M - common along Rio Chiriqui viejo - fruit blue-black
- 309 Tree 8M
- 310 Tree 20M - flowers purple - fruit black
- 311 2M - flowers pale pink
- 312 Flowers white
- 313 Small tree 5M - flowers yellow
- 314 Tree 15M - flowers white - fruit sweet to taste
- 315 Woody vine - bracts dull red
- 316 Vine - fruits black
- 317 Tree 10M - flowers white
- 318 Tree 6M - flowers blue - keel yellow
- 319 Vine - flowers white
- 320 Tree 15M - fruits orange
- 321 Tree 10M - fruit purple
- 322 Vine - flowers tan striped green

Rio Yape and Rio Tuyra near the mouth of the Yape - 20M 7-12-13-14-15 ¹⁹³⁷

- 323 Tree 20M - flowers yellow
- 324 Tree 20M - flowers butter yellow
- 325 Vine - flowers rose purple
- 326 Herb 1 1/2M - flowers white - fruit white
- 327 Tree - common along river banks - 35M
- 328 Vine in scrubby trees along river- Aristolochia - flowers measure 7'8" in length - heavily spotted maroon - bad odor
- 329 Slender tree 6M - fruit white
- 330 Vine - fruits purple - along Rio Tuyra in trees
- 331 Vine - flowers white - fruits green
- 332 Grass - on gravel banks of Rio Tuyra
- 333 Grass 1 1/2M - along river banks
- 334 On dark wet banks
- 335 Tree 25M - flowers white - fragrant
- 336 Herb 1 1/2M - flowers white - fruit scarlet
- 337 Scleragella 1 1/2M
- 338 Tree 10M - fruit scarlet
- ~~339 Tree 10M - fruit scarlet~~
- ~~340 Tree 25M - flowers white - wood white, hard and heavy~~
- 339 Tree 10M
- 340 Tree 25M - flowers white - wood white, hard and heavy
- 341 Shrub 1 1/2M - flowers white
- 342 Tall herb 1 1/2 to 2M - Indians take leaves and slightly crush them spread with fat or lard and apply to bodies as a poultice to draw out pain - leaves also brewed into a tea for colds

- 343 Tree 5M - flowers orange - in chains from old wood
- 344 Herb 1M - flowers white - fruit black
- 345 Epiphytic aeroid - ~~corriples~~ - corriples of fruit orange
- 346 Fern - climbing on trees
- 347 Fern
- 348 Tree 15M - flowers white
- 349 Tree 10M - fruits borne from trunk
- 350 Tree 25M
- 351 Tree 15M
- 352 Tree 5M
- 353 Liana in tops of trees - pods dull red
- 354 Vine - calyx orange - corolla yellow
- 355 Shrub 2M - flowers pale lavender
- 356 "Cana amarga" - used in treatment of veneriol diseases - 3M - flowers pink
- 357 1½M - flowers scarlet
- 358 Shrub - fruit orange - 2M - flowers lavender
- 359 Sedge
- 360 Sedge
- 361 Sedge
- 362 Herb - flowers white
- 363 Creeping plant - flowers blue
- 364 Tall 2½M - flowers from base - dull red
- 365 Tree 15M - flowers yellow
- 366 Liana in trees - flowers yellow
- 367 Herb 1½M - flowers blue
- 368 Small tree - 3M
- 369 Small herb - creeping herb - flowers white
- 370 Shrub 2½M - bracts orange-red
- 371 Shrub 2½M - flowers white
- 372 Fern
- 373 Tree 8M

El Valle de Anton 8-17-37

- 374 Orchid - sepals and petals dark reddish brown - lip yellow -
fragrant - about 3000 ft. on north rim of Valley - cool dark forest
epiphytic on large trees

number 375 to 500 missing

Some of the above may have been lost in the fire
of Sept. 2, 1937

MADON DAM - C. 2. 80 FT. SEPT. 11, 1937

Collected by Paul & Dorothy Allen

Size - RHIZANTHES ISTHMICUS WOODSON -

HOPE WOODY VINE - Flowers pale greenish yellow
NOT FRAGRANT WHEN SEEN -

Costa Rican PLANTS

Heights of La Carpentera - Vicinity of Tres Rios - 1300 to 2000M - 12-1-37

- 500 Shrub 1½M - flowers pale pink
- 501 Flowers light tan
- 502 Lichen
- 503 Fern
- 504 On boulders
- 505 Flowers nearly white with three deep purple lines on each of the ^{sepals} ~~sepa~~
- 506 Lichen
- 507 Herb 0 flowers prim-rose pink
- 508 Creeping Solonaceous - herb - flowers white
- 509 Tree 25M - flowers pale pink
- 510 Shrub - flowers scarlet
- 511 Flowers pink
- 512 Aeroid
- 513 Lichen
- 514 Aeroid
- 515 Tall herb 1½M - flowers deep blue
- 516 Tree 15M
- 517 Lichen
- 518
- 519 Tree 25M
- 520 Flowers light yellow
- 521 Flowers white
- 522 Flowers white
- 523 Flowers rose pink
- 524 Small shrub 1M - flowers yellow
- 525 Tall herb - flowers white - fruit red 1½M
- 526 Small shrub 1½M - flowers pale pink
- 527 Tall herb - flowers white 2M
- 528
- 529 Fern

Road above San Isidro de Coronado 1400 to 1600 M 12-13-37

- 530 Large epiphytic shrub - on species of Lauraceae - flowers pale pink
- 531 Flowers pink - Shrub 1½M
- 532 Epiphytic shrub - flowers tubular pale green - stipules rose red
flowers in terminal clusters
- 533 Epiphytic shrub - flowers long tubular - scarlet tipped white - in
dense clusters on old wood
- 534 Large woody vine climbing to 10M in trees - bracts shell pink turning
greenish white with age
- 535 Woody tree 10M to 30M - trunk 10 in. at base - flowers bright yellow
fragrant
- 536 Flowers yellow - common road-side weed
- 537
- 538 Slender tree 15M
- 539 Flowers white - very tall - woody about 1M
- 540
- 541 Small tree 3M - flowers white
- 542 Tree 20M - flowers greenish - tiny - sessil on spike
- 543 2M - Flowers white - berries black
- 544 Large epiphytic shrub - flowers orange
- 545 Small tree 2½M - flowers orange
- 546 Fern
- 547 Fern
- 548 20M - common tree along streams
- 549 Shrub 3M flowers lavender

- 550 Slender tree 15M - fruits dull red
- 551 Tree 10M - flowers white
- 552 Tree 10M - flowers white - leaves pale green - flowers in ^{long} facemes
- 553 Tree 15M - flowers white
- 554 Large tree 25M
- 555 Vine - flowers rose pink

Both banks of Rio Virilla - below highway bridge to Heredia
 1000 to 1100 M 12-20-37

- 556 Tree 15M - flowers bright yellow
- 557 Orchid - flowers bright tan - lip maroon
- 558 Tree 15M - flowers bright yellow
- 559 Shrub 2½M - flowers rose pink
- 560 Flowers bright orange
- 561 Bracts green to whitish at base
- 562 flowers lavender
- 563 Large woody scandant shrub 10M - fruit white
- 564 Flowers blue 3/4M
- 565 Tree 3M - flowers pale ~~##~~ yellow
- 566 Tree 12M - flowers pale pink
- 567 Flowers pink
- 568 Flowers blue
- 569 Large tree 20M - flowers yellow
- 570 Herb - flowers white
- 571 Tall herb - flowers white 1M
- 572
- 573 On boulders
- 574 Vine
- 575 Fern
- 576 Herb 2M - flowers gray
- 577 Herb 1½M - flowers pale yellow - much branched
- 578 Bushy herb 1M - flowers white
- 579 Large spreading tree 15M
- 580 Shrub 2M - flowers white - fragrant
- 581 Tree 20M
- 582 Grass
- 583 Grass
- 584 Flowers lavender
- 585 Flowers yellow
- 586 Small tree 5M - stamens dull red
- 587 Tall herb 2M - flowers bright yellow
- 588 Herb 2M - flowers white
- 589 Tall herb 1M - flowers yellow
- 590
- 591 Dwarf bamboo

Summit of Volcan Poas 2500 to 2575M 12-22-37

- 592 Tall tangled herb 3/4M - flowers yellow
- 593 Small tree 3M - keep yellow - sepals and petals pale blue
- 594 Vine - flowers dull red
- 595 1½M - flowers white
- 596 Small bushy tree 4M - flowers with sepals and petals very much reduced - greenish
- 597 Tall herb 1M
- 598 Shrub 2M - flowers pale pink
- 599 Bushy tree 5M - flowers white
- 600 Bushy tree 5M - flowers rose pink

- 601 Shrub 1½M - flowers rose pink
- 602 Herb - branches 1M long - flowers deep lavender
- 603 Fern
- 604 Small tree 2½M - flowers lavender
- 605 Legume - shrub up to 2M - flowers yellow - leaves reduced to spines
- 606 Tree 15M
- 607 Herb - flowers white - growing on margins of small Sphagnum bogs
- 608
- 609 Flowers greenish yellow
- 610
- 611 - Flowers yellow
- 612 Herb - flowers yellow
- 613 Grass
- 614 Herb
- 615 Tree 5M - flowers white
- 616 Woody vine
- 617 Fern
- 618 Slender epiphytic shrub 1M - flowers pink
- 619 Stout tree 15M - fruit black
- 620 Grass
- 621 Small stunted tree 2½M - flowers pale pink
- 622 Shrub up to 3/4M where protected from wind - flowers white - No.621
and 622 are the only two species of plants found near the crater brim
- 623 Fern
- 624 Creeping herb forming mats on verticle banks - flowers white - fruit
scarlet
- 625 Sedge

Summit ridge of La Carpintera

about 2000M

12-24-37

- 626 Herb - flowers yellow - growing in bogs in forested summit
- 627 Terrestarrial 1M
- 628 Epiphytic herb 1M - flowers redish brown
- 629 Epiphytic ~~###~~ shrub 3/4M - calyx scarlet - corolla yellow
- 630 Epiphutic herb - 1½M - flowers green spotted purple within
- 631 Tree 12M
- 632 Tree 10M - fruit scarlet
- 633 Slender tree 6M
- 634 Small tree 5M - flowers white
- 635 Tree 20M - flowers white
- 636 Epiphytic shrub - flowers pink
- 637 Tree 20M - flowers white
- 638 Slender tree 15M - flowers green
- 639 Tree 15M - flowers fleshy white
- 640 Small tree 3½M - flowers yellow
- 641 Tree 25M
- 642 Orchid
- 643 Epiphytic shrub 1½M - flowers pink
- 644 Tree 7M - flowers white
- 645 Flowers lavender
- 646 Flowers white
- 647 Vine - flowers lavender
- 648 Flowers orange
- 649 Tree 12M - flowers yellow
- 650 Flowers green

Vicinity of El Alto Rail Way Station on road to Cartago

1550M

12-28-37

- 651 Herb - flowers yellow

- 652 Sedge
653 Herb - flowers lavender
654 Herb - flowers lavender
655 Flowers yellow
656 Tree 10M - flowers white
657 Large vine - flowers white
658 Fern
659 Flowers yellow
660 Tree 10M - flowers orange
661 Tree 20M - flowers white
662 Tall herb 1½M - flowers white
663 Flowers blue
664 Orchid - flowers lavender
665 Shrub 2M - flowers pink
666 Fern
667 Flowers white
668 Flowers pink

Volcan Irazu 10000 to 11330 ft. 12-30-37

- 669 Tall herb 1½M - flowers salmon
670 Tree 8M - flowers orange
671 Flowers salmon - parasitic on oaks
672 Tree 30M
673 Shrub 2M - flowers white
674 Flowers blue
675 Flowers yellow
676 Shrub 1½M - calyx maroon
677 Tree 10M - flowers yellow
678 Flowers yellow
679 Flowers pale lavender
680 Flowers pale yellow
681
682 Flowers blue - maybe introduced
683 Cone deep blue
684 Shrub 1½M - flowers pale lavender
685 Flowers pale yellow
686 Small stunted tree 2½M - near crater rim - flowers white
687 Grass - in upper crater
688 " " " " " " " " " "
689 about 11000 ft. - flowers yellow
690 Herb 1 to 1½M - flowers white
691 Flowers white - trunk 10 to 12 in. in diameter at base with stout woody branches 1½in. in diameter. The whole being about 6M high
692 Flowers yellow
693 Shrub 2M
694 Shrub 1M
695 Flowers deep lavender
696
697 Fern
698
699 Grass
700 Dwarf shrub up to 1M
701 Fern
702 Flowers yellow
703 Vine - flowers orange
704 Shrub 1½M - fruit black
705 Shrub ¾ M - flowers pale pink
706 Shrub 2M - flowers pale pink

Vicinity of Las Nubes

Above SAN ISIDRO DE CORDOBA

1800M

1-2-38

- 707 Tall herb 2½M
708
709 Small tree 3M - flowers white - very common and probably introduced
710 Herb 3/4N - flowers pale pink
711 Flowers white - shrub 2M
712 Flowers pink
713 Tree 3M - flowers lavender
714 Flowers yellow
715 Flowers yellow
716
717 Grass
718 Herb 2M - flowers golden yellow - fragrant
719 Shrub 1M - flowers pink
720 Shrub 1½M
721 Grass
722 Flowers scarlet 1M
723 Vine - flowers yellow
724 Flowers lavender
725 Fern
726 Fern
727 Fern

numbers missing until 731

ARRAIJAN - April 11, 1938 - 50 m.

- 731 - Tall, flat-topped tree - 20 m. Fls. orange
732 - Shrub tree, 10 m. Fls. pale tan.

VICIN. SAN CARLOS - Sea level - April 11, 1938

- 733 - Small tree, about 30 m. Hibiscus. Fls. ^{yellow} yellow.

NATIONAL Highway BETWEEN Beluco & Cajina - 20 m. May 8, 1938

- 734 - Lioua - Apocynaceae - Corolla tube pale yellow both ^{inside} inside
& out. Inner surface of petals flushed salmon red.

- 735 - Small tree - 6 m. Budding? - Fls. pale white -

- 736 - BIGNONIACEAE - Lioua, climbing in tree to about ²⁵ 25
meters. Fls. pale yellow & fragrant - Shrub of
Cerro Conyuma, near road pass.

PLANTS OF PANAMA

El Valle de Anton

- Cocle Province

9-5-38

700M

- 737 Small herb - moist shady banks - flowers pink
738 Epiphytic - fruits pale yellow
739
740 Fern
741 Shrub 2M - fruits white
742 Fern
743 Flowers salmon red 1M
744 Flowers lavender -blue - on shaded wet banks
745 Sedge
746 Sedge
747 Sedge
748 Fern
749 Flowers yellow - tall shrub 4M
750 Flowers red
751 Composit - tall herb 1½M - flowers white
752 Tree 15M - spreading - flowers white
753 Small tree 2½M - flowers white
754 On moist shaded banks - flowers white
755 Shrub 1½M - flowers pink
756 Fruit bright red
757 Flowers pink
758 Tree 8M - flowers white
759 Single spadix , spathe decayed - no leaves - in standing water
760
761 Orchid - sepals wint red - yellow margins - petals pale yellow spotted
wine red - lip yellow - fragrant
762 Flowers and bracts yellow 1M
763 Isolated clumps - may have been introduced - flowers yellow - fruit
scarlet
764 Flowers minute - pale pink - shrub 2M
765 Tree 8M - spreading - flowers scarlet
766 Herb - flowers pink - common on boulders in stream beds
767 Small bushy tree - fruit blue-gray 2½M
768 Sedge
769 Grass
770 Tree 10M - spreading - fruit pods scarlet - seeds black
771 Shrub - flowers white 1½M
772 Grass
773 Flowers lavender
774 Tree 10M
775 Tree 10M - flowers pale green
776 Shrub 2M - flowers white
777
778 Tree 15M - flowers pale green
779 Herb - flowers white
780 Orchid - flowers white
781 Orchid - flowers green
782 Orchid - flowers maroon
783 Shrub 1½M - flowers yellow
784 Tall herb 1½M - flowers white
785 Fern
786 Small tree - 2M - flowers pale pink
787 Fern
788 Fern

Santa Maria - Province of Herrera

20M

9-13-38

- 789 Flowers purple 3½M

- 790 Herb 1M - flowers white with yellow blotch - stamens 3 - purple tipped
791 Tree 15M - flowers rose pink - growing in standing water

Pese - Province of Herrera 50M 9-13-38

- 792 Flowers red
793 Flowers pale yellow
794 Common shrub 5M - flowers white
795 Small tree 3M, fruit white
796 Small tree 3M - flowers white
797 Small slender bamboo 3M
798 Fruit yellow
799 Very common weed - flowers yellow
800 Herb 1M - flowers maroon
801 Herb 1M
802 Tree 15M
803 Common roadside weed
804 Woody liana - flowers pink
805 Tree 15M - flowers pale yellow
806 Flowers scarlet
807 Tree 10M - flowers white
808 Flowers white
809 Flowers blue
810 Flowers yellow
811 Flowers yellow

Las Tablas - Province of Los Santos 15M 9-12-38

- 812 Tree 8M - flowers yellow

Nata Cocle Province 50M 9-12-38

- 813 Vine - flowers orange
814 Flowers purple
815 Flowers yellow
816 Tree 15M - flowers white
817 Flowers pale orange
818 Sedge
819 Sedge
820 Flowers green
821 Herb - flowers pink
822 Flowers white
823 Herb - calyx white - corolla yellow
824 Herb - flowers white
825 Flowers pink
826 Herb - flowers long slender purple tubes
827 Flowers white
828
829 Flowers pale yellow
830 Herb - common - flowers pale pink
831 Flowers pink
832 Flowers white
833 Flowers yellow
834 Flowers pink
835 Flowers lavender
836 Herb flowers orange
837 Shrub 2M - flowers white
838 Flowers yellow
839 Grass
840 Vine - flowers white
841 Weedy herb - flowers white

- 842 Herb 1½M - flowers white
- 843 Sub-shrub - flowers pink
- 844 Sub-shrub 1M - flowers orange
- 845 Sedge
- 846 Grass
- 847 Grass
- 848 Sedge
- 849 Sedge

Yape 30M Rio Tuira Province of Darien 10-4-38

- 850 Small slender tree - fruit red
- 851 Large thorny liana - flowers pale green - in top of tree 20M
- 852 Flowers white
- 853 Herb - flowers lavender
- 854 Shrub 2M
- 855 Vine - flowers white
- 856 Shrub 3M - flowers pale yellow
- 857 Shrub 3M - flowers white - leaves crushed - used to poison fish
- 858 Vine - flowers green
- 859 Grass
- 860 Flowers white
- 861 2M - flowers purple
- 862 Flowers white
- 863 1½M
- 864 Flowers green spotted maroon
- 865 Herb - common weed
- 866 Common weed - fruit orange
- 867 Undeveloped bud ~~5'4"~~ 5'4" over all measure - have seen specimens measuring 7'8" in length - open corolla width 24" from same locality - native name "verrugosa" Aristolochia

Boca de Cupe Province of Darien Rio Tuira 40M 10-5-38

- 868 Shrub 2M
- 869 Tall herb 2M
- 870 Fern
- 871 Tree 15M Common along rivers edge - flowers pale pink
- 872 Flowers pale yellow - fruit scarlet herb 2M
- 873 Herb 2M - flowers white
- 874 1½M
- 875 Weed - flowers yellow
- 876 Herb 1M - flowers white
- 877 Weed - flowers yellow
- 878 Grass
- 879 Heliconia - giant herb 5M - flowers red - bracts red - spikes pendant
- 880 Flowers yellow - bracts brown - giant herb 3½M - common
- 881 Flowers yellow
- 882 Tree 20M - stamens white
- 883 Flowers white
- 884 Flowers lavender
- 885 Sedge
- 886 Grass
- 887 Sedge
- 888 Liana - climbing 30M in large trees - flowers rose pink
- 889 Flowers white
- 891 Herb - weed

- 892 Flowers yellow
- 893 Weed
- 894 Flowers white - weed
- 895 Flowers lavender - weed
- 896 Weed
- 897 Flowers blue
- 898 Grass
- 8999 Flowers white
- 900 Flowers yellow
- 901 Flowers blue
- 902 Woody liana
- 903 Flowers straw yellow - weed
- 904 Flowers blue
- 905 Tall woody herb - growing in water along rivers edge- 2M - flowers ^{white} whi
- 906 Tree 4M - flowers pale yellow
- 907 Vine - flowers rose pink
- 908 Vine - two upper petals yellow - rest maroon - 3 bottom smaller petals maroon
- 909 Woody liana - flowers pale pink
- 910 Tree 10M - flowers yellow - common along river
- 911 Common along river - woody herb 2M
- 912 Herb 1M - flowers yellow
- 913 Herb 1M - flowers rose pink
- 914 Heliconia 5M bracts yellow

Pinogana 20M 10-6-38 Province of Darien Rio Tuira

- 915 Liana
- 916 Fern
- 917 Sepals and petals pale yellow - lip maroon
- 918 Herb 1M - flowers white
- 919 Tree 4M - flowers yellowish green - stamens gray - flowers pendant
- 920 Tree 35M - flowers yellow
- 921 Herb 2M - flowers yellow - bracts red
- 922 Flowers lavender
- 923 Flowers white
- 924 Shrub 4M - flowers red - bracts red
- 925 Tall herb - 1½M - flowers white
- 926 Tall thorny herb 2M - fruit pink - both fruit and leaves covered with stinging hairs
- 927 Small tree 3M - flowers white
- 928 Tree 25M - flowers pale yellow
- 929 Flowers pink
- 930 Tree 3M - flowers white
- 931 Flowers white
- 932 Tree 35M - flowers white - common riverbank forrest tree
- 933 Vine - flowers white - segments vined purple
- 934 Riverbank forrest tree 35M
- 935 Tree 25M - stamens white
- 936 Tree 10M - flowers pale pink
- 937 Flowers white
- 938 1M flowers scarlet
- 939 Herb 1½M - flowers white - fruit white
- 940 Woody herb 1½M - flowers white
- 941 1½M - probably introduced

El Real Province of Darien 10-7-38 15M

- 942 Tree 4M - flowers rose pink
- 943 Flowers orange
- 944 Orchid - flowers lavender
- 945 Brownia - small tree 4M - flowers scarlet

- 946 Tree 30M - flowers white
- 947 Sedge
- 948 Liana in tops of large trees - flowers pink
- 949 Vine - flowers yellow
- 950 Herb 1½M - flowering from base of plant - fruits orange
- 951 Tree 4M - flowers white
- 952 Vine - flowers bright orange
- 953 Sedge
- 954 Sedge
- 955 Herb 1M - flowers white - fruit bright blue
- 956 Flowers yellow
- 957 Fern
- 958 Tree 25M - flowers white
- 960 Tree 20M - flowers yellow
- 961 Giant thorny liana climbing 35M to tops of large trees - flowers white
in panicles about 1½M long
- 962 Sedge
- 963 Sedge
- 964 Sedge
- 965 1½M - flowers pale yellow - one stamenode purple
- 966 Tree 20M - flowers white
- 968 Tree 20M - flowers white
- 969 Tree 6M - flowers white
- 970 Vine growing in tops of trees - flowers lavender - on very long stems
pendent 3M
- 971 Shrub 2M - flowers pink

Vicinity of Bejuco

10-18-38

- 972 Liana - flowers pale pink
- 973 Tree 7M - flowers lavender
- 974
- 975 Vine - flowers purple
- 976 Liana - flowers lavender
- 977 Vine - flowers blue
- 978 Tree 8M - flowers red
- 979 Shrub 5M - flowers yellow

- 980
- 981
- 982 Shrub 2M
- 983
- 984

- 985 Tree 3M - flowers orange

- 986 Flowers pink (Gent.) ④
- 987 Flowers lavender (melast.) ④
- 988 Flowers ~~33333333~~ pink (melast.) ④
- 989 Shrub 2½M - flowers pink (Leg.) ④
- 990 Sprawling herb - flowers lavender (Leg.) ④
- 991 Sedge ④
- 992 Sedge ④
- 993 Sedge ④
- 994 Flowers white Gent. ④
- 995 Vine - flowers ~~33333333~~ purple (Leg.) ①
- 996 Vine - flowers lavender (Leg.) ①
- 997 Flowers green (Euphor.) ①
- 998 Flowers yellow (Leg.) ①
- 999 Flowers yellow (Comp.) ①
- 1000 Legume - woody herb 1M - flowers pink ②
- 1001 Herb - flowers white ①
- 1002 Woody malvaceous herb 1M - flowers blue-purple ①

35m.
Very. PACORA, Pinar del Rio Province, I.
Nov. 20, 1938

- 1003 Herb 1½M - flowers white (Lab.) (4)
 1004 Herb 1½M - flowers white spotted lavender (Labiat) (4)
 1005 Herb 1½M - flowers white (Lab.) (4)
 1006 Tree 25M - corolla yellowish green - stamens whorled about pistees (5)
 1007 Flowers white Cistus (3)
 1008 Tree 10M - flowers pale yellow (Leg.) (3)
 1009 Tree - 20M - flowers pink (melast.) (4)
 1010 Tree 10M - flowers white (4)

Santiago Province of Veraguas 50M 11-24-38

- 1011 Vine - flowers salmon red Convolvulus (4)
 1012 Flowers white - parasitic (Loranth.) (4)
 1013 Shrub 2½M - flowers purple (melast.) (4)
 1014 Shrub 1M - flowers purple (melast.) (4)
 1015 Herb - flowers blue (Lab.) (4)
 1016 Tree 3M Piper (4)
 1017 Grass (4)
 1018 Flowers yellow - odor of lemon oil (4)

Hills west of Sona - Province of Veraguas 500M 11-24-38

- 1019 Woody herb 1M - flowers pink (malv.) (1)
 1020 Same as 1014 - flowers white - shrub 1M (melast.) (1)
 1021 Vine - flowers white (Vitac.) (4)
 1022 Vine - flowers green - corolla lobes white (Apocyn) (2)
 1023 Small tree 3M - bracts scarlet Warscewiczia (4)
 1024 Vine - flowers scarlet (4)
 1025 Shrub 2M - flowers white (comp.) (4)
 1026 Herb - flowers pale pink (4)
 1027 Vine - flowers white (comp.) (4)
 1028 Vine - flowers white (Convolv.) (4)
 1029 Liana - flowers lavender (Bign.) (4)
 1030 Liana - flowers pink (malphig.) (4)
 1031 Tall herb 1½M - flowers pink (melast.) (4)
 1032 Vine - flowers pink (Leg.) (4)
 1033 Fruit yellow - parasitic (Loranth.) (4)
 1034 2M - flowers white Begonia (4)
 1035 Vine - flowers red Cissus (4)
 1036 Tree 20M - flowers white (Borag.?) (4)
 1037 Herb, 2 m. fls. blue (Lab.) (4)
 1038 Shrub 2 ½ m. fls. yellow (comp.) (4)
 1039 Tree, 5 m. fls. white
 1040 Tree, 10 m. stamens rose (Leg.) (4)
 1041 Shrub, 1 1/2 m. (malphig.) (4)
 1042 Woody herb, 2 m. fls. rose pink (Acanth.) (4)
 1043 Shrub, 1 1/2 m. fls. yellow (Leg.) (4)
 1044 Scandent shrub, 3 m. fls. white (Borag.?) (4)
 1045 Shrub, 4 m. fls. scarlet Hibiscus (4)
 1046 Woody herb, 2 1/2 m. fls. white (comp.) (3)
 1047 selaginella (4)
 1048 Stenmadenia, large fruit (1)
 1049 Fls yellow (Leg.) (4)
 1050 Fls. white (Rut.) (4)
 1051 Shrub, 1 1/2 m. fls. white (4)
 1052 Fls. yellow (Leg.) (1)
 1053 Fls. white (1)
 1054 Fls. yellow (Leg.) (4)
 1055 Herb, 2 1/2 m. fls. pale yellow (Onag.) (3)
 1056 Floating herb. fls. yellow Jussaea (4)
 1057 Herb, 2 m. fls. pale yellow (malv.) (1)

- 1058 Woody herb, 1 m. Fls. light orange (Leg.) (2)
 1059 Flowers yellow. (4)
 1060 Woody herb 1M. Flowers yellow. (Leg.) (4)
 1061 Herb 1 M. Flowers pink. Mimosa (4)
 1062 Vine Flowers yellow. (Cucurb.) (3)
 1063 Vine- bracts white. (4)
 1064 Scrophulariac - Flowers purple. (3)
 1065 Tree 4 M. -Flowers green. (Leg.) (3)
 1066 Herb 1½ M. flowers yellow. (Comp.) (4)
 1067 Herb Flowers blue growing in bogs. (4)
 1068 Grass. (4)
 1069 Flowers pink. (Cent.) (2)
 1070 Flowers lavender. (Scroph.) (1)
 1071 Flowers lavender (melast.) (1)
 1072 Tree 15 M. Flowers pink. (Guttif.) (4)
 1073 Small tree 3 M. flowers white. (Rub.) (1)
 1074 Selaginella (4)
 1075 Shrub 1½ M. flowers yellow. (Leg.) (4)

VICINITY OF SANTIAGO PROV OF VERGAGUAS

- 1076 Tree 10 M. flowers golden yellow. (Leg.) (4)
 1077 Tree 15 M. legume- flowers pink. (1)
 1078 Scandent shrub 3 M. flowers white. (4)
 1079 Along roadsides - tree 5 M. (Anacard.) (2)
 1080 Thorny tree 8 M. Flowers pale lavender. (Leg.) (4)
 1081 Herb 2 M. Flowers scarlet. Russellia (4)
 1082 Shrub thorny- 2 M. flowers white. Prosopis? (2)
 1083 Vine Flowers deep lavender. (Convol.) (4)
 1084 Woody herb. 1 M. Flowers yellow. (4)
 1085 Flowers blue. (Convol.) (2)
 #####

VICINITY OF CHITRE PROV OF HERRERA 20 M.

- 1086 Tree 6 M. flowers green. (Leg.) (4)
 1087 Flowers blue. (Convol.) (3)
 1088 Flowers white. (4)
 1089 Vine Flowers lavender. (Leg.) (4)
 1090 Flowers white - Vine. (Asclep.) (2)
 1091 Tree 4 M. Flowers yellow. (Malvac.) (4)
 1092 Woody vine- flowers pale pink stripes purple. (4)
 1093 Woody herb 2 M - flowers yellow. (Leg.) (4)
 1094 Scandent shrub 3 M. - flowers pale yellow. (Lab.) (4)
 1095 Woody herb. 2 M. flowers yellow. (Malv.) (4)
 1096 Tree 10 M. flowers yellow. (Leg.) (4)
 1097 Shrub 2 M. growing in standing water- flowers yellow. (Leg.) (4)
 1098 Tree 10 M. -flowers white. (4)
 1099 Herb 1½ M - flowers purple (Acanth.) (4)
 1100 Tree 5 M. -Flowers white- (Borag.) (4)
 1101 Vine- Flowers lemon yellow. Aristolochia (4)
 1102 Vine- flowers white. (Convol.) (3)
 1103 Vine -Flowers pale yellow (4)
 1104 Tall herb 2 M- flowers yellow (Leg.) (4)
 1105 Herb 1½ M. - flowers yellow. (4)
 1106 Herb 2½ M. -flowers yellow. (Comp.) (4)
 1107 Tall herb 1½ M - Flowers blue. (Lab.) (4)
 1108 Vine - flowers white. (Leg.) (1)
 1109 Shrub 3 M. - flowers yellow. (Comp.) (4)
 1110 Shrub 1 M - flowers white. (4)
 1111 Tree 10 M. - flowers green. (Polygon.) (4)
 1112 Flowers yellow. (Apocyn.) (4)

VICINITY OF PACORA PROV OF PANAMA

- 1113 Flowers lavender. (Bign.) (4)
- 1114 Tree 15 M. (Aral.) (4)
- 1115 Herb - Flowers purple (Comp.) (4)
- 1116 Fruit rose. (Malpigh.) (4)
- 1117 Flowers white. (Vitac.) (4)
- 1118 Tree 2½ M flowers pink. (Melast.) (4)
- 1119 Tree 3 M. flowers yellow. (Leg.) (2)
- 1120 Tree 4 M flowers white. (4)
- 1121 Tree 4 M - flowers yellow. Isertia (4)
- 1122 Tree 25 M bracts and flowers white. (Rut.) (4)
- 1123 Tree 3 M fruit yellow. (4)
- 1124 (Malpigh.) Liana (4)
- 1125 Tree 5 M - flowers white. (Leg.) (4)
- 1126 Tree 20 M - flowers white. (Laur.) (4)

VICINITY OF CHORRERA PROV OF PANAMA 30 M

- 1127 Tree 12 M - flowers blue. (Melast.) (4)
- 1128 Vine- flowers bright yellow. (Convol.) (4)
- 1129 Flowers yellow- giant woody liana climbing in tops of trees 30 M. (Malpigh.) (4)

VICINITY OF SAN CARLOS PROV OF PANAMA

- 1130 Flowers scarlet - parasitic on Jobo (Loranth.) (4)
- 1131 Herb 2 M - flowers yellow. (Comp.) (4)
- 1132 Woody Herb legume 1 M - flowers salmon red. (Leg.) (4)
- 1133 Tree 10 M. - flowers white - along sea beach. (Leg.) (4)
- 1134 Tree 10 M. flowers orange. Hibiscus (4)
- 1135 Vine- flowers greenish yellow. (Leg.) (4)
- 1136 1 M. flowers yellow. Physalis (4)
- 1137 Vine. (Apocyn.) (1)
- 1138 Woody herb 1½ M. - flowers yellow. (4)
- 1139 Shrub 1½ M - flowers lavender. (Leg.) (4)
- 1140 Shrub 1 M. flowers pink. (4)
- 1141 Vine common on sand beaches - flowers purple. (Leg.) (4)
- 1142 Fruit deep bronze. (Malpigh.?) (4)
- 1143 Creeping herb. - flowers orange. (Leg.) (4)
- 1144 Flowers scarlet. Lobelia (4) (1)
- 1145 Herb common along stream banks. - flowers lavender. (4)
- 1146 Herb 1 ¼ M. - flowers lavender. (Leg.) (1)
- 1147 Herb 1 M - Flowers white. (Melast.) (1)
- 1148 Grass. (4)
- 1149 Flowers rose pink. Bletia (4)

EL VALLE de ANTON PROV OF COCLE 600 to 1000 M. 12/8/38

- 1150 On high bare ridges - flowers white. Utricularia (1)
- 1151 Minute flowers white. (1)
- 1152 Woody herb 1½ M. flowers pink. (Melast.) (2)
- 1153 Flowers blue. (Polyg.) (1)
- 1154 Herb 1 M - flowers red. (Lobel.) (1)
- 1155 Herb. Flowers white. (4)
- 1156 2 M - flowers scarlet. Russellia (2)
- 1157 Fern. (1)
- 1158 Flowers scarlet. (4)
- 1159 Spiranthes (1)
- 1160 Peperomia (4)

- 1161 Flowers white. *Habenaria* (4)
 1162 composit. - flowers lavender. *Hieracium* (1)
 1163 Fern. (1)
 1164 Herb - flowers pale pink. (1)
 1165 Flowers white. (Rub.) (4)
 1166 Fern. (1)
 1167 Composit 1 M. Flowers white (4)
 1168 Vine Flowers white. (Malv.) (4)
 1169 Sedge (4)
 1170 Vine - flowers green corolla lobes purple. *Convolvulus* (1)
 1171 *Polystachia* (1)
 1172 Tree 4 M - flowers pale yellow. (Laur.) (1)
 1173 Tall woody herb 3 M. flowers dirty white. (Comp.) (4)
 1174 Flowers pink. (Melast.) (1)
 1175 Small tree 3 M. flowers white (Melast.) (4)
 1176 Shrub 3 M flowers scarlet *Hibiscus* (2)
 1177 Scandent shrub 3½ M Flowers yellow. (Comp.) (1)
 1178 Tree 12 M flowers white. (Flacourt.) (4)
 1179 Tall herb 2 M flowers blue. (Lab.) (4)
 1180 Small tree 3 M flowers yellow. (Leg.) (4)
 1180 ~~Small tree 3 M - flowers yellow.~~
 1181 Woody herb 2 M. flowers yellow. (Comp.) (4)
 1182 Woody herb 1½ M flowers dark blue. *Salvia* (4)
 1183 Flowers green. ~~Tuberous rhizome~~ (2)
 1184 Flowers pink. *Begonia* (1)
 1185 Small tree 2½ M. *Piper* (3)
 1186 Black. ~~Epiphytic Anthodium~~ - *Spath* Black (1)
 1187 Shrub 1½ M flowers yellow (Roz.) (3)
 1188 Flowers white *Begonia* (1)
 1189 1½ M. *Rubus* (3)
 1190 2 M. *Pothomorphe* (1)
 1191 Tree 10 M flowers white. ~~Piper~~ (4) (3)
 1192 Giant herb 3 M. *Piper* (4)
 1193 Woody herb 3 M. *Piper* (4)
 1194 Flowers white. *Begonia* (4)
 1195 Tall slender herb 3 M. *Piper* (3)
 1196 Flowers lavender. *Sobralia* (1)
 1197 Fern. epiphyte (4)
 1198 Herb 2 M flowers yellow. (Comp.) (4)
 1199 Tree 3 M. flowers white. (Solan.) (4)
 1200 Tree 10M. (Borag.) (1)
 1201 Flowers pale yellow. (Orchid.) (1)
 1202 Slender palm 3 M. flowers pink. (1)
 1203 Tree 10 M. flowers white. *Solanum* (4)
 1204 Herb. Flowers pink. (Borag.) (4)
 1205 Woody scandent herb climbing in trees 4 M. *Amaranthus* (4)
 1206 Herb 2 M flowers pale lavender *Eupatorium* (4)
 1207 Flowers white ~~Eupatorium~~ (4) *Begonia*
 1208 Fern. epiphyte (4)
 1209 Small tree 3 M. flowers lavender. *Solanum* (4)
 1210 Tall Herb 2 M flowers white. (4)
 1211 Tree. Flowers pale yellow 15 M. (Laur.?) (4)
 1212 Woody liana in tops of large trees. flowers yellow striped purple. *Solanum* (4)
 1213 Herb 1½ M flowers pink. *Centropogon* (2)
 1214 Herb 1 M flowers scarlet (4)
 1215 (Acanth.) (2)
 1216 1 M. (Commel.) (1)
 1217 1 M. *Cyclanthus* (1)
 1218 *Selaginella* (2)
 1219 Woody herb 1 M flowers scarlet. (3)
 1220 Terrestrial. *Peperomia* (1)

- 1221 Epiphytic. *Peperomia* (2)
 1222 Epiphytic. *Peperomia* (2)
 1223 Parasitic shrub flowers orange. (*Loranth.*) (4)
 1224 Vine weedy - flowers white. (1)
 1225 Tree 4 M. bracts dull red. (*Rub.*) (1)
 1226 Herb 1½ M flowers red. (*Acanth.*) (3)
 1227 Epiphytic. *Anthurium* (1)
 1228 *Eucharis boucheri* (2)
 1229 Flowers pale orange. *Pleurothallis* (1)
 1230 Flowers maroon. *Masdevallia* (1)
 1231 Flowers white spurs tipped yellow. (*Orchid.*) (1)
 1232 Flowers yellow. (*Orchid.*) (2)
 1233 Flowers white. (*Orchid.*) (3)
 1234 Flowers maroon. *Pleurothallis* (1)
 1235 Flowers white. Terrestrial. *Spiranthes* (1)
 1236 Flowers brown. *Pleurothallis* (1)
 1237 Flowers white. *Pleurothallis* (1)
 1238 Flowers brown. *Pleurothallis* (1)
 1239 Flowers dull red. *Pleurothallis* (2)
 1240 Flowers dull red. " (1)
 1241 Flowers yellow lip maroon. *Pleurothallis* (1)
 1242 Flowers striped pink. " (1)
 1243 Flowers maroon. *Pleurothallis* (1)
 1244 Flowers pale yellow. *Epidendron* (1)
 1245 Seemingly with every fertilized with flower only in bud. (*Orchid.*) (1)
 1246 Flower white, dotted pink. (*Orchid.*) (1)
 1247 Flowers green. *Epidendron* (2)
 1248 Flowers white. (*Orchid.*) (1)
 1249 Flowers white. " (1)
 1250 Flowers green. *Maxillaria* (1)
 1251 Flowers yellow. *Oncidium* (1)
 1252 Flowers sepals and petals white, lip maroon. *Maxillaria* (4)
 1253 Flowers sepals and petals tan striped brown, lip brown *Maxillaria* (1)
 1254 Flowers green. *Maxillaria* (4)
 1255 Sepals and petals green, lip lavender. *Maxillaria* (1)
 1256 Flowers brown. (*Orchid.*) (1)
 1257 Flowers lavender. *Maxillaria* (1)
 1258 Flowers lavender. *Dioscorea* (1)
 1259 *Peperomia*, epiphyte (2)
 1260 Filmy Fern. (4)
 1261 Fern. (4)
 1262 Fern epiphytic. (1)
 1263 Fern " (4)

~~TABOGA~~

~~TABOGA~~ ISLAND PANAMA BAY 0 to 350 M.

12-16-38

- 1264 Flowers white *Betonica* (4)
 1265 Vine. FLOWERS white. (*Comp.*) (4)
 1266 Vine. Flowers white. (4)
 1267 Herb. Flowers blue. (*Lab.*) (4)
 1268 Flowers pale lavender. *Bletia* (1)
 1269 Liana. - Corollas pink. (*Apocyn.*) (1)
 1270 Flowers yellow. (*Comp.*) (1)
 1271 Stout herb ¾ M - flowers white (*Rub.*) (4)
 1272 Flowers white (*Lab.*) (4)
 1273 Flowers white (*Lab.*) (4)
 1274 Flowers white herb (4)
 1275 Flowers ~~pink~~ pink (*Comp.*) (3)
 1276 Woody herb - flowers rose 1½ M (*Leg.*) (4)
 1277 Flowers white (*Comp.*) (4)

- 1278 Flowers lavender 1½M Eupatorium (4)
 1279 Grass (4)
 1280 Flowers green Habenaria (2)
 1281 Flowers purple (Cent.) (4)
 1282 Flowers white (1)
 1283 Tall woody herb 1M - flowers yellow (Leg.) (4)
 1284 Herb - flowers blue (Lab.) (4)
 1285 Tall straggling herb 1M - flowers white striped lavender
 1286 Tall herb 1½M - 2M - flowers yellow Tetramerium (4)
 1287 Tree 2M piper (4)
 1288 Tree 20M - said to be a native tree - flowers pale yellow Persea (4)
 1289 Vine - flowers pale yellow (Apocyn.) (2)
 1290 2M grass (4)
 1291 Shrub or woody herb - 1M - flowers pale pink (4)
 1292 Shrub 1½M - flowers white (Malv.) (4)
 1293 Tall woody herb 2M - flowers white (Comp.) (4)
 1294 Herb 1M - flowers purple (Acanth.) (4)
 1295 Slender herb 1½M - flowers yellow (Leg.) (4)
 1296 Herb - flowers white (Polygal.) (4)
 1297 Herb - flowers white Heliotropium (4)
 1298 Woody herb 2M - flowers yellow (Malv.) (4)
 1299 Herb - flowers lavender (Acanth.) (4)
 1300 Flowers yellow (Comp.) (4)
 1301 Grass (4)
 1302 Tall herb 2M - flowers lavender (Lab.) (4)

Hills above Campana

Province of Panama

300 to 800 M

12-23-38

- 1303 Shrub 1½M - flowers white (5)
 1304 Tree 15M - flowers white (1)
 1305 Weedy herb 1½M - flowers white (Comp.) (5)
 1306 Woody herb 3M - flowers yellow (Comp.) (5)
 1307 Flowers purple (Comp.) (5)
 1308 Shrub 3M - flowers white (Comp.) (5)
 1309 Small tree 4M - flowers yellow (2)
 1310 Shrub 3M - flowers white (5)
 1311 Asclepias (1)
 1312 Flowers yellow (Leg.) (1)
 1313 Flowers lavender Eupatorium (2)
 1314 Tree 20M - flowers pale greenish yellow (5)
 1315 fern (2)
 1316 grass (5)
 1317 " (5)
 1318 grass (3)
 1319 " (5)
 1320 Fern (5)
 1321 Shrub 3M - flowers white (Comp.) (5)
 1322 Vine 9 flowers white (Convol.) (5)
 1323 Vine - flowers white (3)
 1324 Small tree 5M - flowers white (5)
 1325 Flowers white (Comp.) (4)
 1326 Fern (2)
 1327 Fern (2)
 1328 Fern (1)

1329

Province of Chiriquí - Chiriquí Volcan
vicinity of New Switzerland - 1800 - 2000 M.

JAN 26 - 1939

VALLEY OF RIO CHIRIQUI

1329

- RUBIAC

- SMALL TREE - 2' H -

Fls. pale

yellow -

X 1330

- FERN -

X 1331

- FERN -

X 1332

- FERN

X 1333

- FERN -

X 1334

- FERN -

1335

- FERN -

X 1336

- BIGNONIA - Fls. white

X 1337

- FERN -

X 1338

- GRASS - 4 M - SCANDENT

X 1339

- ORCHID - MAXILLARIA - Fls. TAN - Lips MAROON

- X 1340

- FERN

X 1341

- COMPOSIT - SHRUB - 4 M - Fls. WHITE, COMMON

X 1342

- COMPOSIT - SHRUB - 4 M - Fls. yellow, COMMON

X 1343

- NERANTHACEAE - SHRUB - 3 M - Fls. WHITE -

X 1344

- COMPOSIT - WOODY CLIMBER - 3 M - Fls. LAVENDER -

X 1345

- CAPPARIDACEAE - Fls. WHITE

X 1346

- PASSIFLORA - Fls. GREEN

X 1347

- EUPATORIUM - 1 1/2 M - Fls. LAVENDER

71
40
—
111

- X 1348 - FERN - (5) ✓
- X 1349 - BENONIA - WOODY - 1M - FLS. WHITE (5) ✓
- X 1350 - VIBURNUM ? TREE 6M - FLS. PINK - (5) ✓
- X 1351 - FUSCHIA - TREE - 8M - FLS. PURPLE - (5) ✓
- X 1352 - ARDISIA - TREE - 10M - FLS. ROSE PINK (5) ✓
- X 1353 - UMBELLIFERAE - FLS. GREEN - (5)
- X 1354 - MELASTOMACE - EPIPHYTIC SHRUB 2M - FLS. PINK (5) ✓
- X 1355 - LABIATAE - HERB - 1 1/2M - FLS. PINK - (5) ✓
- X 1356 - TREE - 10M - FLS. WHITE (5) ✓
- X 1357 - FERN - EPIPHYTIC - (5) ✓
- X 1358 - FERN - EPIPHYTIC - (5) ✓
- X 1359 - Piper - TREE - 6M - (5) ✓
- X 1360 - PEPEROMIA - EPIPHYTIC - (5) ✓
- X 1361 - COMPOSIT - EPIPHYTIC SHRUB - 4M - FLS. DIRTY WHITE - (5) ✓
- X 1362 - BIGNONIACEAE - CRESCENTIA? TREE 12M FLS. GREEN - (5) ✓
- X 1363 - AGANTHACE - TREE - 3M - FLS. LAUNDRER (5) ✓
- X 1364 - MIMUNO - HIBISCUS - TREE 6M - FLS. SCARLET (5) ✓
- X 1365 - Piper - TREE - 6M - (5) ✓
- X 1366 - SOLANUM - STOUT HERB - 2M - FLS. GREEN - (5) ✓

$$\begin{array}{r}
 7 \\
 69 \\
 91 \\
 84 \\
 \hline
 251 \\
 301
 \end{array}$$

$$\begin{array}{r}
 91 \\
 40 \\
 36 \\
 \hline
 167
 \end{array}$$

$$\begin{array}{r}
 167 \\
 33 \\
 \hline
 200
 \end{array}$$

$$\begin{array}{r}
 62 \\
 91 \\
 40 \\
 \hline
 193
 \end{array}$$

- * 1367 - COMPOSIT - HERB - 1' H. - Fls. purple (5) ✓
- * 1368 - Hypericum - Fls. orange (5) ✓
- * 1369 - RUBIAC - SPRAWLING HERB - Fls. ROSE -
IN MARSHY PLACES ALONG STREAMS. (5) ✓
- X 1370 - SHRUB - URTICACE? - 3M - (5) ✓
- X 1371 - COMPOSIT - WOODY HERB - 1' H. - Fls. white (5) ✓
- X 1372 - COMPOSIT - 2M - Fls. pale yellow -
COMMON WEED - (1) ✓
- X 1373 - Hydrocotyle? (5) ✓
- X 1374 - COMPOSIT - TALL HERB - 2M -
Fls. yellow (5) ✓
- X 1375 - FERN - 36 (5) ✓
- X 1376 - SEDGE - (5) ✓
- X 1377 - COMPOSIT - Fls. yellow - common weed - (5) ✓
- X 1378 - GRASS - (5) ✓
- X 1379 - SEDGE - (5) ✓
- X 1380 - GERANIUM - Fls. pink - (5) ✓
- X 1381 - ORCHID - ONCIDIUM - Lip yellow -
Sepals & petals BARRED BROWN - (5) ✓
- X 1382 - ORCHID - Epiphytic - Fls. & BRACTS
SCARLET (5) ✓
- X 1383 - PLEUROTHALLIS - Epiphytic - Fls.
GREEN - SPOTTED MAROON - (5) ✓

56
4
13
93

- X 1384 - PLEUROTHALLIS - Epiphytic - Fls. LIGHT TAN
STRIPED MAROON - (5) ✓
- X 1385 - PLEUROTHALLIS - Fls. RED - (1) ✓
- X 1386 - PLEUROTHALLIS - Sepals & petals - LIGHT
TAN - Lip RED - (1) ✓
- X 1387 - RUBIAC - TREE - 20M - (5) ✓
- X 1388 - ERICACEAE - Epiphytic SHRUB - 2M - Fls.
SCARLET - TIPS OF TUBES WHITE - (5) ✓
- X 1389 - CANNA - 3 1/2 M - Fls. SCARLET - (5) ✓
- X 1390 - TROPOLAEUM - VINE - TUBE & PETIOLE
SCARLET - Sepals yellow - 3 Upper
PETALS GREENISH YELLOW - 2 Lower
BANDS BLACK - (5) ✓
- X 1391 - RUBIAC - HERB - Fls. WHITE - (1) ✓
- X 1392 - SMILACINA - Fls. WHITE - (2) ✓
- 1393 - CENTROPAGON - HERB - 1 1/2 M - Fls. PINK - (5) ✓
- X 1394 - PASSIFLORA - Fls. WHITE - (1) ✓
- X 1395 - ARALIACEAE? - Epiphytic SHRUB - 8M - (5) ✓
- X 1396 - FERN - Epiphytic - (5) ✓
- X 1397 - LECUNE - VINE - Fls. ROSE PINK - (1) ✓
- X 1398 - TREE - 30M - Fls. GREEN - (5) ✓
- X 1399 - LORANTHAC - PARASITIC SHRUB - 1M - (5) ✓

$$\begin{array}{r} 73 \\ 22 \\ \hline 95 \\ 20 \\ \hline 115 \end{array}$$

- X 1400 - HYDRANGEA - LIANA - CLIMBING IN TREES
15M - BRNDS - PINK - (3)✓
- X 1401 - TREE - 20M - FLS. WHITE - (5)✓
- X 1402 - BURMANNIACEAE? - SAPROPHYTE - (2)✓
- X 1403 - OXALIS - FLS. yellow (2)✓
- X 1404 - BROWALIA - HERB - 1M - FLS. DEEP BLUE - (5)✓
- X 1405 - TRADESCANTIA - HERB - 1M - FLS. PINK - (5)✓
- X 1406 - COMPOSIT - HERB - SPRAWLING - 1 1/2M -
FLS. PINK - (5)✓
- X 1407 - PENSTEMON? - HERB - 1 1/4M - FLS. pale yellow (5)✓
- X 1408 - BENONIA - TALL HERB - 1 1/2M - FLS. WHITE - (5)✓
- X 1409 - GRASS - (3)✓
- X 1410 - SISRHYNCHIUM? FRIDACEAE - FLS. yellow (5)✓
- X 1411 - ANARANTHUS - 2M - (5)✓
- X 1412 - VERNONIA? - FLS. DARK - BLUE - (5)✓
- X 1413 - COMPOSIT - GIANT HERB - 3M - FLS. yellow (5)✓
- X 1414 - CERASTIUM? SPRAWLING HERB - 2M - FLS. white (5)✓
- X 1415 - COMPOSIT - VINE - CLIMBING TO 8M ON
STUMPS - FLS. yellow (5)✓
- X 1416 - PIPER - GIANT HERB - 4M - (5)✓
- X 1417 - PEPERONIA - EPIPHYTIC - (5)✓
- 1418 - ACANTHACE - HERB - 2M - FLS. yellow (4)✓

- X 1419 - VINE - Fls. white (5) ✓
- 1420 - CENTROPON - SCANDENT HERB - 2 M -
● Fls. SCARLET - Tipped yellow - (5) ✓
- X 1421 - SOLANUM - TREE - 7 M - Fls. white - (5) ✓
- X 1422 - PAPAROMIA - EPIPHYTIC - (5) ✓
- X 1423 - COMPOSIT - HERB common weed - 25 (5) ✓

(5)

$$\begin{array}{r} 59 \\ 30 \\ \hline 89 \\ 19 \\ \hline 108 \end{array}$$

TRAIL FROM-CERRO PUNTA TO HEADWATERS OF
RIO CALDERA - 2250 TO 3000 M - 1-14-39

- X 1424- Filmy FERN - (5)✓
- X 1425- OXALIS? Fls. yellow - STRIPED RED - (5)✓
- 1426- FERN - Epiphytic - (1)✓
- X 1427- ERICACEAE - Epiphytic SHRUB - (1)✓
- X 1428- COLUMNNA - Epiphytic HERB - pendant -
Fls. ROSE PINK - (3)✓
- X 1429- FERN - Epiphytic - (4)✓
- X 1430- Epiphytic HERB - Fls. BROWN - covered
with glandular hairs - ORCHID? (1)✓
- X 1431- FERN - Epiphytic - (5)✓
- X 1432- FERN - Epiphytic - (5)✓
- X 1433- FERN - Epiphytic - (2)✓
- X 1434- ERICACEAE - Epiphytic SHRUB - Fls.
Red-tipped white (1)✓
- X 1435- BEGONIA - Epiphytic - Fls. white (5)✓
- X 1436- FERN - TERRESTRIAL - (5)✓
- X 1437- Filmy FERN - Epiphytic (5)✓
- X 1438- RUBIAC - TREE - 5 M - Fls. LAVENDER - (5)✓
- X 1439- ORCHID - TERRESTRIAL - Fls. GREEN (1)✓
- X 1440- BEGONIA - TERRESTRIAL - STOUT HERB - 1 M -
Fls. white - Petals blotched CRIMSON (5)✓

- X/441 - PAPERONIA - EPiPHYTiC HERB - 1M - (5)✓
- X/442 - LOBELIACEAE - HERB - 1 1/2 M - Fls. CRiSON (5)✓
- X/443 - CUCURBIT - VINE - Fls. GREEN - WAYOTE? (5)✓
- X/444 - LORANTHAE - PARASITiC SHRUB - Fls. (5)✓
SALMON ORANGE
- X/445 - PiPER - TREE - 8M - (5)✓
- X/446 - SMILACINA - HERB - 3M - Fls. WHITE (2)✓
- X/447 - FERN - TERRESTRIAL - ADVENTITIOUS PLANTS (3)✓
ON FRONDS -
- X/448 - ASCLEPIAD - VINE - Fls. GREEN (5)✓
- X/449 - GESNERIAC - HERB - 1M - Fls. ORANGE - (2)✓
- X/450 - GESNERIAC - TREE 6M - COROLLAS SALMON RED
OUTSIDE - yellow INSIDE - (5)✓
- X/451 - PAPERONIA - EPiPHYTiC - (5)✓
- X/452 - PAPERONIA - EPiPHYTiC - To 1M TALL (5)✓
- X/453 - ANTHURIUM - EPiPHYTiC - (1)✓
- X/454 - MELASTOMACE - TREE - 10M - (5)✓
- X/455 - FERN - EPiPHYTiC - (4)✓
- X/456 - FERN - EPiPHYTiC - (5)✓
- X/457 - FERN - TERRESTRIAL - (4)✓
- X/458 - COMPOSIT - VINE - Fls. yellow (1)✓

- X 1459 - COMPOSIT - STOUT HERB - 2 1/2 M - Fls. yellow (5) ✓
- * 1460 - CYCLANTHUS - GIANT HERB - GROWING IN CHURCH (3) ✓
- X 1461 - CONOPHILIS? BALANOPHORACEAE - PARASITIC ON THE ROOTS OF OAKS - (1) ✓
- X 1462 - ORCHID - WARSZEWICZELLA? NOT DISCOLOR
SEPAL & PETAL PATE YELLOW - LIP WHITE
RETICULATED PURPLE - (1) ✓
- X 1463 - PLEUROTHALLIS - Fls. GREEN (1) ✓
- X 1464 - ORCHID - EPIPHYTIC - Fls. TRANSPARENT
STRIPED - MAROON THROUGHOUT S-P & LIP - (1) ✓
- X 1465 - PLEUROTHALLIS - Fls. TAN - (4) ✓
- X 1466 - PLEUROTHALLIS - Fls. BROWN - (2) ✓
- X 1467 - PLEUROTHALLIS - Fls. MAROON - (3) ✓
- X 1468 - PLEUROTHALLIS - Fls. DEEP MAROON - (3) ✓

~~584~~

24

(7)

125

TRAIL FROM - PASO MUELLO TO MONTE LIRIO
 VALLEY OF RIO CHIRIQUI VIAJO - 1500 TO
 2000 M - 1-16-39 -

- X 1469 - MALPHIGIACEAE - TREE - 20M - Fls. yellow - (5)✓
- X 1470 - TREE - 4M - Fls. yellow - (5)✓
- X 1471 - URTICACEAE? - TREE - 10M - Fls. white - (5)✓
- X 1472 - COMPOSIT - SCANDENT HERB - 3M - Fls. green (5)✓
- X 1473 - COMPOSIT - TALL STOUT HERB 3M - Fls. white (5)✓
- X 1474 - EUPHORBIACEAE? TREE 20M - Fls. white (5)✓
- X 1475 - ACANTHACEAE - HERB - 1½M - Fls. coral red (5)✓
- X 1476 - BORAGINACEAE? - THORNY LIANA - Fls. white - (5)✓
- X 1477 - VINE - Fls. green - lip scarlet - (3)✓
- X 1478 - LOBELIACEAE? - SHRUB - 1½M - Fls. scarlet (5)✓
- X 1479 - ASCLEPIAD - LIANA - Fls. light tan - (5)✓
- X 1480 - NELASTOMACEAE - TREE - 20M - Fls. white (5)✓
- X 1481 - LANTANA? - TREE - 15M - Fls. yellow (5)✓
- X 1482 - LENTULE - VINE - Fls. orange - striped red - (5)✓
- X 1483 - TREE - 20M - (3)✓
- X 1484 - SMALL TREE - 3M - Fls. green - CESTRUM (3)✓
- X 1485 - ULMACEAE - TREE - 20M - Fls. green (5)✓
- X 1486 - LAURACEAE - OCOTEA - TREE - 30M - "BAMBITO" (5)✓
- X 1487 - MYRTACEAE? TREE - 20M - Fls. white - (5)✓

$$\begin{array}{r} 27 \\ 15 \\ \hline 42 \end{array}$$

- X 1488 - MARCGRAVIA - GIANT WOODY LIANA (5)✓
- X 1489 - COMPOSIT - TREE - 7M - Fls. WHITE (5)✓
- X 1490 - RUBIAC - TREE - 6M - Fls. yellow (5)✓
- X 1491 - Piper - GIANT HERB growing in
clumps of several canes - 3M - (5)✓
- X 1492 - SOLANUM - TREE - 8M - Fls. WHITE (5)✓
- X 1493 - MALVAC - HERB - 2M - Fls. - LAVENDER (5)✓
- X 1494 - RUBIAC - LEAFY SHRUB - 3M - Fls. pink (5)✓
- X 1495 - COMPOSIT - HERB - 2M - Fls. GREENISH yellow (5)✓
- X 1496 - LOBELIACEAE? SHRUB - 1M - Fls. SCARLET (5)✓
- X 1497 - FUSCHIA - SHRUB - 2M - Fls. ROSE - (5)✓
- X 1498 - BORAGINACEAE - WOODY HERB - 3M - Fls.
PALE BLUE - COVERED WITH STINGING HAIRS (5)✓
- X 1499 - ONCIDIUM - CHIEROPHYTUM - Fls. yellow (5)✓
- X 1500 - NOVO TROPA? - PARASITIC 815 (157) 60
PLANT - ROSE PINK throughout (1)✓
- X 1501 - GUNNERA SP. GIANT HERB - (1)✓
- X 1502 - FERN - EPIPHYTIC - (5)✓
- X 1503 - ERICACEAE - EPIPHYTIC SHRUB - Fls. ORANGE
TIPPED WHITE - (5)✓
- X 1504 - ARMARILLARIACEAE? - LIANA - Fls. WHITE - (5)✓

- X/505 - TREE - 20M - Fls. GREEN - (5) ✓
- X/506 - ANTHURIUM - EPiPHYTic - (2) ✓
- X/507 - POLYHALAGACEAE - WOODY VINE - Fls. WHITE (5) ✓
- 1508 - Climbing TO TOPS OF TREES (751) 30M - 11 (3)
- X/508 - ORCHID - MILTONIA ENDRESII - Fls. WHITE
yellow BLOTCH ON Lip - (1) ✓
- X/509 - MALVACEAE - WOODY HERB - 1 1/2 M - Fls. ORANGE (5) ✓
- X/510 - HERB - 1M - Fls. SALMON RED - (5) ✓
- X/511 - PHYTOLABIA SP - HERB - 1 1/2 M - Fls. ROSE (5) ✓
- X/512 - CONVULVULACEAE - VINE - Fls. WHITE 38 (5) ✓

VICINITY OF CERRO PUNTA - VALLEY OF
 RIO CHARIQUI VIEJO - 2500M - 1-21-59

- X 1513 - METASTOMACE - SHRUB - 1 1/2 M - Fls. Rose (5)✓
- X 1514 - ACANTHACE - WOODY HERB - 3M - Fls. ORANGE (5)✓
- X 1515 - TREE - 30M - COMMON ALONG RIVER & IN FOREST - (5)
- X 1516 - FERN - TERRESTRIAL - 2M - (1)✓
- X 1517 - ORCHID - ODONTOGLOSSUM - Sepals & Petals BROWN TIPPED yellow - Lip pale yellow in AGE - STARTING PURE WHITE (5)✓
 IN TOPS OF LARGEST TREES - 30M -
- X 1518 - EPIPHYTIC SHRUB - Fls. yellow (5)✓
- X 1519 - TREE - Fls. GREEN - 30M - (1)
- X 1520 - COMPOSIT - LIANA CLIMBING INTO TOPS OF LARGEST TREES - 30M - Fls. WHITE (3)✓
- X 1521 - FERN - EPIPHYTIC - (5)✓
- X 1522 - FERN - TREE - TRUNK 6M - (1)✓
- X 1523 - CLEMATIS - WOODY VINE (5)✓
- X 1524 - APORYNACE - LIANA - IN TOPS OF TREES 30M - Fls. GREEN? (TREES HAD BEEN FELLED FOR SOME DAYS) (2)✓
- X 1525 - EPIPHYTIC SHRUB - ERICACEAE - Fls. RED TIPPED WHITE (PROBABLY COLLECTED BEFORE) (1)✓

- X/526 - ERYTHARINA - TREE - 30M - (2) ✓
- X/527 - FERN - EPiPHYTiC - (5) ✓
- X/528 - ORCHID - TERRESTRIAL - CREEPING
HABIT - ROOTS BEING PRODUCED FROM LEAF
AXILS - Fls. GREEN - (1) ✓
- X 1529 - ORCHID - EPiPHYTiC - PLANT PENDANT -
Fls. TAN (1) ✓
- X 1530 - ORCHID - EPiPHYTiC - PLANT PENDANT
Fls. MAROON - (4) ✓
- X 1531 - ANTHURIUM - TERRESTRIAL - 1M - (1) ✓
- X/532 - PEPEROMIA - EPiPHYTiC - (5) ✓
- X/533 - CESTRUM - STOUT HERB - 2M - Fls. Yellow (2) ✓
- X 1534 - PERSEA - TREE - 30M - (2) ✓
- X 1535 - ERICACE - EPiPHYTiC SHRUB -
Fls. PURPLE - (1) ✓

826

24

8

VICINITY OF LLANO DE VOLCAN - PROV. OF
CHIRIQUI - 1300M - 1-23-39 -

- X 1536 - PSIDIA - SHRUB - 1M - Fls. WHITE - (5) ✓
- X 1537 - MELASTOMACEAE - SHRUB - 1M - Fls. WHITE (1) ✓
- X 1538 - VIBURNUM? - TREE 4 1/2 M - Fls. WHITE - (5) ✓
- X 1539 - ERICACEAE - SHRUB GROWING IN DRY
WASHES ON LLANOS 2M - Fls. Red-tipped
WHITE - (1) ✓
- X 1540 - TREE - COMMON ON LLANOS - 10M - Fls.
yellow (5) ✓
- X 1541 - LANTANA? - SHRUB - 2 1/2 M - Fls. yellow (5)
- X 1542 - ERICACEAE - SHRUB - 2M - Fls. pink - (5) ✓
- X (A) 1543 - SHRUB - 2M - (5)
- X 1543 - EUPATORIUM - HERB - 1M - Fls. WHITE -
COMMON IN FOREST NEAR LAKE - (5) ✓
- X 1544 - FERN - TERRESTRIAL - COMMON IN DENSE
FOREST NEAR LAKE - (5) ✓
- X 1545 - COMPOSIT - Fls. yellow - COMMON ON LLANOS (5) ✓
- X 1546 - RUBUS - SHRUB - 1 1/2 M - COMMON ON LLANOS - Fls.
WHITE (5) ✓
- X 1547 - ERICACEAE - PERNETTIA CORIACEA? - DWARF SHRUB
1 FOOT TALL OR LESS - Fls. WHITE - COMMON ON LLANOS (5) ✓
- X 1548 - MYRTACEAE? - TREE - 6M - Fls. pink - IN FOREST
NEAR LAKE - (5) ✓

- X 1549 - MELASTOMACE - SHRUB - 1 1/2 M - Fls. purple -
 COMMON IN MARSHY PLACES ON MANOS - (5) ✓
- X 1550 - PIPOER - SMALL TREE - 2 M - IN FOREST NEAR
 LAKE (2) ✓
- X 1551 - BORAGINACE? SCANDENT SHRUB - 4 M - IN FOREST
 NEAR LAKE - Fls. LAVENDER - (1)
- 1552 - PLEUROTHALLIS - EPiphytic - Fls. GREEN -
 STRIPED MAROON - IN FOREST NEAR LAKE - (1) ✓
- X 1553 - SHRUB - 1 M - Fls. pink - COMMON ON MANOS (5) ✓
- X 1554 - COMPOSIT - Fls. WHITE - WOODY HERB - 2 M -
 COMMON ON MANOS - (5) ✓
- X 1555 - EUPATORIUM - 1 M - Fls. LAVENDER - 2 M (5) ✓
 908

VICINITY OF CERRO PUNTA - 2500M - 1-24-39

- X 1556 - BOMAREA - VINE - Fls. SCARLET (2) ✓
- X 1557 - CASTILLEJA - BRACTS SCARLET - (5) ✓
- X 1558 - FERN - TERRESTRIAL - ADIANTUM - (5) ✓
- X 1559 - TREE - 3M - Fls. WHITE - (5) ✓
- X 1560 - LYNAANDROPSIS? - HERB. 1 1/2 M - Fls. RED - (2) ✓
- X 1561 - ARAKAKACEAE - TREE - 20M - Fls. WHITE - (5) ✓
- 1562 - ERICACEAE - EPIPHYTIC SHRUB - Fls. RED. (2) ✓
- X 1563 - MYRTACEAE - TREE - 30M - Fls. WHITE (3) ✓
- X 1564 - SAPOTACEAE? - TREE - 30M - Fls. WHITE - (5) ✓
- X 1565 - VERBENACEAE - TREE - 20M - Fls. GREENISH yellow - (5) ✓
- X 1566 - TREE - 25M - Fls. BROWN - (5) ✓
- X 1567 - ONCIDIUM - VINE - GROWING IN TOPS OF TALLEST TREES - Fls. BRIGHT yellow - Sepals & petals. BARRED REDISH BROWN - (1) ✓
- X 1568 - LYCOPODIUM - EPIPHYTIC - (2) ✓
- X 1569 - LYCOPODIUM - EPIPHYTIC - (1) ✓
- X 1570 - LAURACEAE - OCOTEA - TREE - 30M - (5) ✓
- X 1571 - LORANTHACEAE - PARASITIC VINE - Fls. TAN (2) ✓
- X 1572 - LAURACEAE - OCOTEA - TREE - 30M - (5) ✓

● * 1573 - LEIOMME - INDIA - TREE - 30M - Fls. WHITE -

⑤ ✓

● * 1574 - ARALIAACEAE - EPIPHYTE OR STRANGLER

● TREE - 10M - Fls. WHITE -

⑤ ✓

1005 - 226

10

2

$$\begin{array}{r} 1005 \\ 226 \\ 71 \\ 17 \\ \hline 1319 \end{array}$$

VICINITY - OF PASO ANCHO - 1500M - 1-25-39

- X 1575- TREE - 25M - Fls. WHITE - (5) ✓
- X 1576- POLYKALAC - TREE - 3M - Fls. BLUE - lip yellow (5) ✓
- X 1577- FERN - TRAILSTRICK - (5) ✓
- X 1578- COMPOSIT - VINE - Fls. GREEN - (5) ✓
- X 1579- PIPER - TREE - 2M - (5) ✓
- X 1580- EUPATORIUM - HERB - 1 1/2 M - Fls. WHITE - (5) ✓
- X 1581- SOLANUM - HERB - 1M - Fls. TAN - (2) ✓
- X 1582- RUSSCHIA - HERB - 1 1/2 M - Fls. RED - (5) ✓
- X 1583- COMPOSIT - TALL WOODY HERB - 3 1/2 M - Fls. WHITE (5) ✓
- X 1584- SMILAX - VINE - Fls. GREEN (2) ✓
- X 1585- COMPOSIT - SCANDENT HERB - 3M - Fls. yellow (5) ✓
- 1586- COMPOSIT - STERILE? - Fls. ORANGE - (1) ✓
- X 1587- COMPOSIT - WOODY HERB - 2M - Fls. yellow (5) ✓
- X 1588- COMPOSIT - STOUT HERB - 3M - Fls. yellow (3) ✓
- X 1589- SMALL TREE - 2 1/2 M - BRACTS RED - (4) ✓
- X 1590- LABIATAE - STOUT HERB - 1 1/2 M - Fls. Deep Blue - (5) ✓
- X 1591- ULMUS? - TREE - 20M - 71 (4) ✓
- X 1592- BROMELIAD - EPiphytic - ON BRANCHES OF OAK - (1) ✓
- X 1593- BOCCONIA - PROTEREANS? - WOODY HERB - 3M - (1)
- X 1594- HELEONIA - 2 1/2 M - BRACTS RED - Fls. yellow (1)

X/595 - QUARNS - TREE - 30M - (5)

X/596 QUARNS - TREE - 30M - (5)

X/597 - QUARNS - TREE - 30M - (1)

X/598 - TREE - 10M - (3)

VICINITY OF CHORRELA PANAMA PROVINCE
30M - 1-30-39 -

X/599 - LEAVES - TREE - 20M - Fls. yellow

"INDIO" local NAME - (4) ✓

RIO LAS LADAS - ZONA - PROV. OF PANAMA - 2-5-39

- X 1600 - TREE - 8M - Fls. WHITE - (5)✓
- X 1601 - LENTICE - WOODY HERB - 1 1/4 M - Fls. LAVENDER - (5)✓
- X 1602 - BIGNONIAE - LIANA - Fls. PINK - (1)✓
- X 1603 - SHRUB - 2M - Fls. PURPLE - (2)✓
- X 1604 - ARALACEAE - TREE - 12M - Fls. GREENISH WHITE - (4)✓
- X 1605 - ANACARDIUM - TREE - 20M - "ESPAVE" (5)✓
- 1606 - LENTICE - WOODY LIANA - Fls. LAVENDER - (5)✓
- X 1607 - TREE - 8M - Fls. WHITE - (5)✓
- X 1608 - INGA - TREE - 15M - Fls. WHITE - (5)✓
- X 1609 - SMALL TREE - 3M - Fls. WHITE - (1)✓
- X 1610 - EUPATORIUM - Fls. PINK - (5)✓
- X 1611 - TREE - LAURACEAE? - 10M - Fls. DIRTY WHITE - (5)✓
- 1612 - TREE - 15M - ANONACEAE? Fls. FLESHY - MAROON - (5)✓
- X 1613 - INGA - TREE - 12M - Fls. WHITE - (5)✓
- X 1614 - SHRUB - Fls. WHITE - 1 1/2 M - (1)✓
- X 1615 - LOW SCRUBBY TREE - 6M - Fls. GREEN - (5)✓
- X 1616 - RUBIACE - SMALL TREE - 4M - Fls. WHITE (5)✓
- X 1617 - WOODY LIANA - (3)✓
- X 1618 - SHRUB - 1 1/2 M - Fls. YELLOW (1)✓
- 1619 - LOBELIA - Fls. SCARLET - (1)✓

VICINITY OF ARRANAN - PROV. OF PANAMA -
354-2-9-39-

X 1620 COCHLOSPERMUM VITIFOLIUM - TREE - 6M - Fls.
Golden yellow -

(2)✓

X 1621 - BIGNONIACEAE - LIANA - Fls. purple -

(5)✓

X 1622 - TREE - LAURACEAE - 15M - Fls. white - FRAGRANT

(5)✓

X 1623 - BIGNONIACEAE - LIANA - Fls. lavender -

(5)✓

X 1624 - COMPOSIT - VINE - CLIMBER 6M IN BRUSHY
places - Fls. vivid orange - SENECEOID -

(5)✓

* 1625 - LEGUMINE - SMALL TREE - 8M - Fls. yellow

(4)✓

X 1626 - TILIACEAE - TREE - 20M - Fls. greenish white
FRAGRANT -

(5)✓

X 1627 - ONAGRACEAE - JESSICA - HERB - 1 1/2M - Fls. yellow

(5)✓

* 1628 - ERYTHRINA FLAVICA - TREE - 15M - Fls. orange

(5)✓

X 1629 - COMPOSIT - TREE - 8M - Fls. white -

(5)✓

VICINITY OF BELVED - PROV. OF PANAMA - 20M -
2-9-39 -

X 1630 - TABEBUYA pentaphylla - TREE - 15M - Fls.

LAUREL - YELLOW THROAT -

(5) ✓

X 1631 - ERYTHRINA - SMALL SPREADING TREE - 8M - Fls.

SHRIMP PINK -

(5) ✓

YENADO BEACH - CANAL ZONE - OM - 2-9-39

X 1632 - PITHECOBIVIA - BUSHY TREE - 5M - Fls.

WHITE -

(5) ✓

RIO LAS LASAS - 20M - PROV. OF PANAMA

2-12-39

X 1633 LEHOMIE - TREE - Fls. ORANGE - 10M - GROWING

WITH PLANTAIN ON SORE OF RIVER CANON

(5) ✓

Paul H. Allen - Plants of Panama

February - 1939

to

February - 1940

No. 2

1634

to

2143

EL VALLE DE ANTON - 300 TO 600 M - 2-12-39

X 1634 WOODY LIANA - LEAVES - Fls. purple - (5)✓

X 1635 - TREE - LAURACEAE? "CANELA" Fls. white - (5)✓

NORTH RIM OF EL VALLE DE ANTON - 600 TO
1000 M - 2-12-39 -

X 1636 - TREE - 10 M - FRUITS yellow - (5)✓

X 1637 - VERBENACEAE - SHRUB - 8 M - Fls. blue - (5)✓

X 1638 - MELASTOMACEAE - WOODY HERB - 2 M - Fls. pink - (1)✓

X 1639 - PIPER - SHRUB - 3 M - (5)✓

1640 - PIPER - TREE - 4 M - (5)✓

X 1641 - SLENDER BAMBOO - OR STOUT BRACHYCLADUS
GRASS - 3 1/2 M - (5)✓

X 1642 - ACANTHACEAE - Fls. pink - (1)✓

X 1643 - TERRESTRIAL FERN - FRONDS - 4 M - (1)✓

X 1644 - ASCLEPIAD - LIANA - Fls. green - (5)✓

X 1645 - BRONCHIAL - EPIPHYTIC - BRACTS SPARKLE
FRUITS yellow - (2)✓

X 1646 - SMALL TREE - 2 1/2 M - Fls. white - (1)✓

X 1647 - RUBUS - 2 1/2 M - (2)✓

X 1648 - RUBINE - SMALL TREE - 3 1/2 M - BRACTS RED
Fls. white - (5)✓

- X/649 - Schlotheimia - (5)✓
- X/650 - Orellia - Epiphytic - Fls. yellow (1)✓
- X/651 - Columnnea - Epiphytic - Fls. Red. (4)✓
- X/652 - Piper - Shrub - 4M - (2)✓
- X/653 - Cucurbit - Vine - Bracts orange - (1)✓
- X/654 - Renoualmia - Giant Herb - Growing along
stream banks - 5M - Fls. cream (4)✓
- X/655 - Begonia Epiphytic - Climber -
Fls. white (1)✓
- X/656 - Tree - 8M - Fls. green - (5)✓
- X/657 - Tree - Bushy - 3M - Ends of branches scandent
thick juice - Fls. white, flower spikes
often partially transformed into
tendrils - (5)✓
- X/658 - Tree - Slender - 4M - Borate? - Fls. green
entire plant covered with stinging hairs (2)✓
- X/659 - Crinum - Fls. white - very faintly
tinged pink - (1)✓
- X/660 - Passiflora vitifolia - Fls. scarlet (1)✓
- X/661 - Acanthace - Herb - 1M - Fls. scarlet (5)✓

- X 1662 - TREE - 5M - COMPOSIT - Fls. WHITE (3) ✓
- X 1663 - BEKONIA - TERRESTRIAL - Fls. pink - (5) ✓
- X 1664 - BEKONIA - TERRESTRIAL - Fls. WHITE - (5) ✓
- X 1665 - TETRAHEUM - Fls. WHITE - STRIPED LAMINAR (5) ✓
- X 1666 - RUBIACE - HERB - 1M - Fls. WHITE - (5) ✓
- X 1667 - PASSIFLORA - VINE - Fls. GREEN - (1) ✓
- X 1668 - SHRUB - 3M - (1) ✓
- X 1669 - Heliconia - 2M - (2) ✓
- X 1670 - ACANTHACE - SHRUB - 2M - Fls. SCARLET (5) ✓
- X 1671 - ACANTHACE - SHRUB - 3M - Fls. SCARLET (5) ✓
- X 1672 - ACANTHACE - HERB - 1/2M - Fls. SALMON RED (5) ✓
- X 1673 - ACANTHACE - HERB - 1 1/2M - Fls. RED - (5) ✓
- X 1674 - ACANTHACE - BLOSSOM? - Fls. LAMINAR - (5) ✓
- X 1675 - ORCHID - ONCIDIUM CHRISTI - BARKI - ? - Fls. yellow - (2) ✓
- X 1676 - PLEUROTALLIS - EPiphytic - Fls. STRIPED ROSE (1) ✓
- X 1677 - ORCHID - Fls. WHITE - (1) ✓
- X 1678 - ORCHID - EPIDENDRUM - Fls. Sepals & Petals CREAM - Lip STRIPED MAROON (1) ✓
- X 1679 - ORCHID - EPiphytic - Fls. TAN - Spotted RED - (1) ✓
- X 1680 - EPIDENDRUM - Fls. TAN - (3) ✓

- X 1681 - ONCIDIUM CHIROPOLEUM? fls. yellow (1) ✓
- X 1682 - ORCHID - fls. TRANSPARENT - STRIPED
NARROW (1) ✓
- X 1683 - FERN - EPiphytic - (2) ✓
- X 1684 - ORCHID - fls. TAN - (1) ✓
- X 1685 - ORCHID - fls. TAN - (1) ✓
- X 1686 - PASSIFLORA - VINE - ~~fls.~~ ^{corolla} DOTT NARROW -
INSIDE - WHITE OUTSIDE - (1) ✓

VICINITY OF CAPIRA - 20M - 2-12-39

- X 1687 - TREE - 20M - fls. CREAM - (5) ✓
- X 1688 - LEGUME - TREE - 20M - fls. WHITE - (5) ✓

HILLS ABOVE CAMPANA - PANAMA PROVINCE

3-5-39 - 600M -

- X 1689 - TREE - 7M - Fls. pale lavender (5)
- X 1690 - ACANTHACE - Fls. yellow (5)
- X 1691 - CUCURBIT? - corky liana - calyx vivid orange - corolla yellow - flowers from exposed portions of roots - (1)
- X 1692 - SMALL TREE - 4M - Fls. green - (5)
- X 1693 - MELASTOMACE - SHRUB - 2M - Fls. pink - (5)
- X 1694 - PASSIFLORA - VINE - Fls. purple (1)
- X 1695 - POLYGONACEAE? - WOODY LIANA - Fls. purple - (1)
- X 1696 - ACANTHACE - Fls. deep blue - (5)

VICINITY OF CHORRERA - PANAMA PROVINCE

3-5-39 - 30M -

- X 1697 - LEGUME - CASSIA MOSCHATA? - TREE - 10M - Fls. orange - (5)
- X 1698 - TABEBUYA - TREE 6M - Fls. yellow with maroon lines within throat - calyx densely hairy - (5V)
- X 1699 - TREE - LEGUME - 18M - Fls. orange (5V)

VICTORIA FILL - NEAR MIRAFLORES LOCKS
CANAL ZONE - 3-6-39 - OM -

- X 1700 - TRIPLARIS AMERICANA - TREE - 8M -
BRACTS BRIGHT PINK - (5)✓
- X 1701 - POLYGONACEAE - TREE - 8M - FLS. WHITE (5)✓
- X 1702 - ACANTHACE - FLS. PALE LAVENDER - (5)✓
- X 1703 - SEDGE - (5)✓
- X 1704 - LEGUME - TREE - 20M - INDA - FLS. WHITE - (5)✓
- X 1705 - ACANTHACE - HERB - 1 1/2M - FLS. RED - (5)
- X 1706 - SWAMP FERN - 2M - (5)
- X 1707 - GRASS - (5)
- X 1708 - TREE - 10M - FLS. WHITE - (5)
- X 1709 - LEGUME - VINE - FLS. BLUE - (4)
- X 1710 - TREE - 10M - FRUIT - SCARLET - (5)✓
- X 1711 - LEGUME - WOODY LIANA - FLS. WHITE (2)✓
- X 1712 - MYRTACEAE - TREE - 8M - FLS. WHITE (5)✓
- X 1713 - BORAGINACEAE - SCANDENT SHRUB
3M - FLS. WHITE - (5)✓
- X 1714 - GRASS - (5)✓
- X 1715 - BOMBAX - TREE - 8M - TRUNK + BRANCHES
VERY THORNY - FLS. GREENISH BRONZE - STAMENS
WHITE (3)✓
- X 1716 - SEDGE - (5)✓

1717 - GRASS

(5) ✓

* 1718 - HERB - POLYGONACEAE? - Fls. white

(5) ✓

X 1719 - SEDGE -

(5) ✓

X 1720 - STEROWIA APETALA - TREE - 25 ft. - fls.

calyx - LIGHT TAN - STRIPED MAROON

within -

(1) ✓

MATATELA SWAMP - VICINITY OF Palo Saco
3-11-39 - O.M.

- X 1721 FERN - TERRESTRIAL - COMMON - (2)✓
X 1722 GRASS - (1)✓
X 1723 - TREE - 6M - STILT ROOTS (5)✓
X 1724 - TREE - 6M - STILT ROOTS - Fls. WHITE - (5)✓
X 1725 - BIGNONIACEAE? MULTIPLE TRUNKED TREE -
10M - Fls. ROSE BROWN - (5)✓
X 1726 - TREE - 10M - STILT ROOTS - SEPARATE. CREAM-
PETALS WHITE - FRUIT PENDANT - (3)✓
2)

VICTORIA FILL - NEAR MIRAFLORES LOCKS -
O.M. - 3-14-39 -

- X 1727 - HERB - 1M - Fls. BLUE - (5)
X 1728 - SEDGE - (5)
X 1729 - SEDGE - (5)
X 1730 - SEDGE - (5)
X 1731 - SEDGE - (5)
X 1732 - GRASS - (5)

NORTH RIM OF EL VALLE DE ANTON - COCKE
 PROV. ELEVATION 700M - 3-19-39

- X 1733 TREE - 12M - fls. white - (5)✓
- X 1734 - Apocynaceae - TREE - 8M - flowers pendant -
 petals brown - center of flowers yellow (6)✓
 milky juice -
- X 1735 - Gesneriaceae - epiphytic - plant pendant - (1)✓
 flowers red -
- X 1736 - TREE - 8M - flowers very fleshy - orange (5)✓
 edged green -
- X 1737 - URTICACEAE - ON MOIST ROCKS NEAR WATERFALL (6)✓
- X 1738 - BORACEAE - LIANA - climbing in tops of trees
 20M tall - fls. white - (5)✓
- X 1739 - MARCEBRACEAE - WOODY CLIMBER - ASCENDING
 TREES - 20M - MUCH LESS RAMPANT THAN (4)✓
 Chiriqui species -
- X 1740 - OCOTEAE - TREE - 25M - (2)✓
- X 1741 - DILLENIACEAE? - CORATELLA? - TREE -
 10M - fls. white - (5)✓

SOUTH RIM OF EL VALLE DE ANTON -
 ELEVATION 800M - 3-19-39

- X 1742 - Lecythidaceae - TREE - 8M - flowers deep
 rose - (4)✓

VICTORIA FILL - NEAR MIRAFLORES LOCKS
O-M - 3-21-39

- X 1743 - ACACIA - TREE - 2 1/2 M - FLS. YELLOW (5) ✓
- X 1744 - COMPOSIT - HERB - 1 1/2 M - FLS. WHITE (5) ✓
- X 1745 - MALPHIGIACE - TREE - 8 M - FLS. YELLOW (5) ✓
- X 1746 - WOODY LIANA - CLIMBING IN TREES - 10 M -
FLS. WHITE - VINE WITHOUT LEAVES - (5) ✓
- X 1747 - CITISUS - VINE - FLS. WHITE - (2) ✓
- X 1748 - TREE - 10 M - FLS. TAN - (1) ✓
- X 1749 - TREE - 8 M - (2) ✓
- X 1750 - TREE - 8 M - FLS. WHITE - VERY FRAGRANT - (1) ✓

NORTH RIM OF EL VALLE DE ANTON
COCLE PROVINCE - ELEVATION 700 M - 3-19-39

- X 1751 - BIGNONIA - LIANA - CLIMBING IN TREES
20 M - FLS. ROSE PINK - (6) ✓

VICTORIA FILL - NEAR MIRAFLORES LOCKS
O-M - 3-21-39 -

- X 1752 - GRASS - (5) ✓
- X 1753 - GRASS - (5) ✓
- X 1754 - TREE - 25 M - FLS. LIGHT TAN - (7) ✓

VICTORIA FILL - NEAR MIRAFLORES LOCKE

4-2-39

X 1755 BIGNONIA - WOODY LIANA - Fls. pink -

THROAT pale yellow - FRAGRANT - (5) ✓

X 1756 BIGNONIA - WOODY LIANA - Fls. lavender -

THROAT WHITE - NOT FRAGRANT - (2) ✓

X 1757 GIANT SHRUB - 6M - Fls. white - (5) ✓

X 1758 LEUCOME - WOODY - LIANA-LIKE - SCANDENT

SHRUB - 6M - Fls. white - FRAGRANT (5) ✓

VICTORIA FILL -

4-19-39

X 1759 LEUCOME - TREE - 12M - Fls. white - (5) ✓

X 1760 ¹⁷⁶⁰ SCANDENT SHRUB - 3 1/2 M - Fls. TAN - (5) ✓

X 1761 ¹⁷⁶¹ TREE - 10M - Fls. white - (5) ✓

X 1762 ¹⁷⁶² TREE - 12M - Fls. white - (5) ✓

VICINITY OF AKRAIJAN - 30M - 5-4-39

X 1763 JACARANDA - TREE - 20M - Fls. purple (5) ✓

X 1764 VOCALYSIA FERRUGINEA - TREE - 25M - Fls.

ORANGE - (5) ✓

X 1765 - TREE - 10M - Fls. white - FRAGRANT (5) ✓

SOUTH RIM - (DRY) OF EL VALLE DE ANTON
ROCHE PROV. EL. 600-700 M. 5-14-39

- X 1766 - LAURUS - TREE - 10M - FL. WHITE - (2) ✓
- X 1767 - YUCHYSIA FERRUGINA - TREE - 15M - FL. ORANGE - ODOR OF GREEN PUMPKIN - (5) ✓
- X 1768 - LAURUS - TREE - 6M - FL. WHITE - FRAGRANT (4)
- X 1769 - EUBENIA - SLENDER TREE - 6M - FL. WHITE - FRAGRANT - (5)
- X 1770 - LAURUS - TREE - 15M - FL. ROSE PINK - (5) ✓
- X 1771 - MELASTOMACEAE - TREE - 6M - FL. WHITE - (5) ✓
- X 1772 - SMALL TREE - 3M - FL. WHITE - (5)
- X 1773 - SLENDER TREE - 8M - FL. WHITE - BARK SMOOTH & RED - (5)
- X 1774 - MELASTOMACEAE - SMALL TREE - 6M - FL. WHITE - (5) ✓
- X 1775 - OCOTEA - TREE - 8M - (5) ✓
- X 1776 - RUBUS - 2M - (2) ✓
- X 1777 - MALPHIGIACEAE - VINE - FL. YELLOW (1)
- X 1778 - MALPHIGIACEAE - VINE - FL. ORANGE - (1)
- X 1779 - LOBELIACEAE - SHRUB OR WOODY HERB - 1/2 M - ALONG EDGES OF ROAD CUTS - FL. SCARLET - (5) ✓
- X 1780 - BIGNONIACEAE - WOODY LIANA - PETALS PALE PINK - THROAT PALE YELLOW FRAGRANT - (5) ✓

EL VALLE DE ANTON - 600M - 5-14-39

- X 1781 - LAURACEAE - TREE - 10M - SPREADING - (5) V

NORTH RIM OF EL VALLE DE ANTON -
TRAIL TO SAN MIGUEL - EL - 800 - 1000M -
5-14-39

- 1782 - BIGNONIACEAE - TREE - 12M - FLOWERS PRODUCED
FROM TRUNK IN MANNER OF PARMENTIERA -
FLS. WHITE - FRUIT RUSSSET BROWN - STRONGLY
RIDGED - NOT *ESCHMANNIA* ^{SEE} FRUIT (5)

- X 1783 - APOCYNACEAE - *STENNADANIA*^A - SMALL TREE - (5)
4M - FLS. ORANGE - PETALS STRONGLY RE-CURVED

- X 1784 - PIPER - STOUT HERB - 3M - ^{CANE WITH VARY} PROMINENT NODES (3) V

- X 1785 - RUBIACEAE - TREE - 10M - FLS. PALE ORANGE
STRIPED MAROON - (5) V

- X 1786 - FERN - EPIPHYTIC - (1) V

- X 1787 - BESNERIACEAE - EPIPHYTIC HERB - FLS. SCARLET (5) V

- X 1788 - MELASTOMACEAE - EPIPHYTIC SHRUB - FLS. ROSE
RED - (5) V

- X 1789 - COSTUS - BRACTS & FLOWERS PALE ORANGE (1) V

- X 1790 - ~~Cycas~~ ? - HERB - 1 1/2M - (2) V
PALM - ? -

- 1791 - RUBIACE - SMALL TREE 6M - Fls. very pale pink - (5) ✓
- X 1792 - ORCHID - HADENARIA? - EPiPHYTic - Fls. white - (1) ✓
- X 1793 - CESTRUM? - STOUT HARB - 1 1/2 M - Fls. ^{TUBES} yellow - PETALS GREEN - (5) ✓
- X 1794 - BORAGINACE - HERB - 1M - Fls. DIRTY WHITE - (3) ✓
- X 1795 - TREE 15M - TRUNK 10" - Fls. PURPLE - (5) ✓
- X 1796 - RUBIACE - TREE - 8M - Fls. WHITE - (5) ✓
- X 1797 - HERB - 1M - Fls. yellow - (4) ✓
- X 1798 - RUBIACE - TREE - 10M - Fls. WHITE - BORNE ON SHORT LATERAL SPURS - (5) ✓
- X 1799 - FERN - EPiPHYTic - (5) ✓
- X 1800 - APUCYNACE - VINE - Fls. ^{ochre} yellow - (3) ✓
- X 1801 - PIPER - SHRUB - 2 1/2 M - (5) ✓
- X 1802 - SMALL TREE - 4M - Fls. WHITE - (5) ✓
- X 1803 - LORANTHACE - Fls. ochre yellow - (5) ✓
- 1804 - PALM - 3M - (1) ✓
- X 1805 - SOLANUM - WOODY VINE - Fls. WHITE - FRUIT ORANGE 59 (2) ✓

Belvero - PROV. OF PANAMA - 20M - 5-21-39

1806 - TREE - 10M - Fls. TAN -

(1) ✓

NORTH Rim of LA VALLE DE ANTON - COCHÉ -
PROV. TRAIL TO SAN MIGUEL - 800 TO 1000M -
5-21-39 -

X 1807 - CUCURBIT - CORKY VINE - CALYX VIVID ORANGE
COROLLA yellow -

(5) ✓

X 1808 - PIPER - STOUT HERB - 3M - VERY PROMINENT NODES (5)

X 1809 - CYCLANTHUS - 1 1/2 M -

(1) ✓

X 1810 - TREE - 20M - FLOWERS TAN - STRIPED RED -

(5) ✓

X 1811 - MARPHITIA - SMALL TREE - 2 1/2 M - Fls. yellow (1) ✓

X 1812 - AEROID - EPIPHYTIC -

(1)

X 1813 - COMMECHINAE - VINE CLIMBING TO 3M. IN
BRUSHY PLACES - Fls. Blue -

(2) ✓

1814 - PALM - SLENDER - 2 1/2 M -

(1) ✓

1815 - PALM - SLENDER - 1 1/2 M -

(1) ✓

X 1816 - SOLANACE - HERB - 1M - Fls. WHITE -

(1) ✓

1817 - PALM - 4M -

(1) ✓

X 1818 - HALICONIA - 3M - BRACTS RED - Fls. yellow (1)

X 1819 - AEROID - EPIPHYTIC -

(1) ✓

X 1820 - MELASTOMACE - HARD - 2M - Fls. WHITE -

(1) ✓

- X/821 - PALM - 1 1/2 M - (2) ✓
- X/822 - SOLANACE - HERB - 1 M - Fls. white - (1) ✓
- X/823 - SOLANUM WENDLANDII? - WOODY CLIMBER -
Fls. DEEP LAVENDER - (1) ✓
- 1824 - ERICACEAE - EPiphytic - SHRUB - Fls.
ROSE - (1) ✓
- X 1825 - COSTUS - HERB - 1 1/4 M - BRACTS SCARLET -
Fls. SCARLET - (5)
- X 1826 - ORCHID - EPiphytic - Fls. white - (1) ✓
- X 1827 - ORCHID - Pleurothallis - EPiphytic - Fls.
DULL MAROON - (3) ✓
- X 1828 - ORCHID - Pleurothallis - EPiphytic - Fls.
yellow - (5) ✓
- X 1829 - DESMIDACE - HERB - Fls. yellow (1) ✓
- X 1830 - ERICACEAE - EPiphytic SHRUB - Fls. TUBES
WHITE - TIPPED PINK - (1) ✓
- X 1831 - ASCLEPIAD - VINE - Fls. GREEN - (5) ✓
- X 1832 - CUCURBIT - VINE - CALYX - ORANGE - COROLLA
yellow (1) ✓
- X 1833 - PIPER - SHRUB - 2 M - (5) ✓
- X 1834 - LEGUMINE - TREE - 15 M - Fls. white - (1) ✓
- X 1835 - ORCHID - Pleurothallis - EPiphytic - Fls.
Brown - 34 (1) ✓

Vicinity of COROZAL - C. Z. Rio Diablo -

6M - 5-28-39 -

- X 1836 - TREE - 10M - Fls. WHITE - FRUIT ORANGE - (5)
X 1837 - TREE - FIGS - 12M - (5)

NORTH RIM OF EL VALLE DE BRUN -

TRAIL TO SAN MIGUEL - 800 TO 1000M -

6-4-39 - Collected by ALSTON & ALLEN -

- X 1838 - CYCLANTHUS - HERB - 1 1/4 M - (3)
X 1839 - AROID - TERRESTRIAL - SPATHE GREEN -
STROKES FATID BLOK - (1)
X 1840 - PHANOTRALLIS - EPIPHYTIC - Fls. TAN - (3)
X 1841 - TREE - 6M - Fls. ORANGE - (5)
X 1842 - PIPER - STOUT HERB - 3M - (5)
X 1843 - AROID - EPIPHYTIC - (2)
X 1844 - AROID - TERRESTRIAL - (1)
X 1845 - AROID - TERRESTRIAL - (1)
X 1846 - ARDISIA - SMALL TREE - 4M - Fls. pale lavender (5)
X 1847 - RUBIAC - TREE - 10M - Fls. STRAW yellow (5)
X 1848 - URTICAC - ^{OR EUPHORBIA} HERB - 1M - Fls. ROSE (2)
X 1849 - RUBIAC - TREE - 12M - Fls. WHITE - (5)
X 1850 - AROID - TERRESTRIAL - SPATHE GREEN - (1)

- X/1851- SOLANACE - TREE - 4M - FLs. WHITE - (5)
- X/1852- ARDISIA - ? - SMALL TREE - 3M - FLs. SALMON PINK - (5)
- X/1853- RUBIACE - SHRUB - FLs. WHITE - 1M - (5)
- X/1854- AEROID - EPiphytic - (1)
- X/1855- Apocynace - ASclepias - CORKY VINE - FLs. PETALES GREEN - THROAT OF TUBE YELLOW - (5)
- X/1856 - SMALL TREE - FLs. STRAW YELLOW - 4M - (5)
- X/1857- POLYTONACE - TREE - 5M - FLs. WHITE - (5)
- X/1858 - LAURACEAE - OCOTEA - TREE - 6M - (5)
- X/1859 - VIOLACEAE - FLs. WHITE - HERB - (5)
- X/1860 - PHUKOTALLIS - FLs. OLIVE GREEN - (1)
- X/1861 - ROSOPURIA - TREE - 8M - FLs. WHITE - (5)

CERRO-CAMPANA - 600-800M - Province of
PANAMA - 6-18-39

- X 1862 - Apocynac - TREE - 20M - Fls. white - FRAGRANT -
MILKY JUICE - (11)
- X 1863 - TREE - 8M - Fls. white - (5)
- X 1864 - STOUT HERB - 1M - Fls. yellow (1)
- X 1865 - BORACE - SHRUB - 2M - Fls. white - (1)
- X 1866 PHOMERIA - SHRUB - 1 1/2 M - Growing on FACE
OF CLIFF NEAR TOP OF CERRO CAMPANA -
Flowers white - NO FRAGRANCE - (2)

VICINITY OF BELVOO - O-N-MARINES ALONG
ROADSIDE - 6-18-39

- X 1867 - MARSILEA - (3)

Cerro Campana - 800-1000 M - Cloud Forest
Near top - 7-1-39

- X 1868 - woody vine - fls. white (5)
 - X 1869 - Dioscorea - fls. purple - (5)
 - X 1870 - PALM - 5M - TRUNK & ALL PARTS COVERED
WITH SPINES - INFLORESCENCE ERECT (1)
 - X 1871 - Gesneriace - HERB - fls. blue - (2)
 - X 1872 - BUTTIFERA - EPIPHYTIC SHRUB - 2M - fls.
white - (3)
 - 1873 - COSTUS - 1 1/2 M - BRACTS SCARLET - fls. yellow (1)
 - X 1874 - FERN - EPIPHYTIC - (2)
 - X 1875 - Gesneriace - EPIPHYTIC HERB - BRACTS
AND FLOWERS SCARLET - FLOWER TUBES TIPPED
yellow - EPIPHYTIC - (3)
 - X 1876 - FERN - EPIPHYTIC (1)
 - X 1877 - RUBIAC - SMALL TREE - 4M - fls. blue (4)
 - X 1878 - BRONELIAD - EPIPHYTIC - (1)
 - X 1879 - RUBIAC - EPIPHYTIC SHRUB - 1M - fls. red - (5)
 - X 1880 - ERICACEAE - EPIPHYTIC SHRUB - (2)
 - X 1881 - ORCHID - pleurothallis - fls. white - (1)
- (36)

- X 1882 - ORCHID - EPIDENDRUM - Fls. white - lip
marked purple - (1)
- X 1883 - ELEANTHUS - Fls. BRILLIANT ORANGE - lip EDGED
SCARLET - (5)
- 1884 - ELEANTHUS - Fls. SCARLET - (4)
- 1885 - SETTAFINCHIA - (5)
- X 1886 - RUBIAC - Fls. purple - (7)
- X 1887 - APOCYNAC - VINE - petals. white - deep
lavender markings - throat yellow (1)
(17)

FORT KOBE ROAD - 10 M - 7-5-39

- X 1888 - TREE - 10 M - LEAVES - Fls. yellow (5)
- X 1889 - RUBIAC - SCANDENT SHRUB - 3 M - Fls. white (5)
- X 1890 - LAURACE - TREE - 7 M - Fls. white (5)
- X 1891 - MALPHEACE - TREE - 7 M - Fls. yellow (5)

EL VALLE DE ANTON - NORTH RIM - SAN
MIGUEL TRAIL - 800 - 1000 M. 7-9-39.

- X 1892 - RUBIAC - ISEPTIA - FLS. ORANGE - SHRUB 1M - (5)
X 1893 - FERN - TERRESTRIAL - (3)
X 1894 - ORCHID - EPIPHYTIC - EPIDENDRUM - FLS. GREEN - (1)
X 1895 - TREE - 10M - FLS. WHITE - (5)
X 1896 - RUBIAC - SHRUB - 1 1/2 M - FLS. PALE YELLOW (5)
X 1897 - EPIPHYTIC CACTUS - PENDANT - 1 1/2 M - FLS. WHITE (4)
X 1898 - FERN - EPIPHYTIC - (4)
X 1899 - FERN - Climbing in small trees - (5)
X 1900 - TREE - ANNONACEAE - 12M - FLS. YELLOW (5)
X 1901 - PALM - 5M - SLENDER - SPINELESS - (1)
X 1902 - PALM - 3M - (1)
X 1903 - FERN - EPIPHYTIC - (1)
X 1904 - SEPTARIACEAE - (3)
X 1905 - IRIDACEAE - FRUIT ONLY - (1)
X 1906 - HYDRANGEA - SCANDENT SHRUB - 6M - FLS. PINK (1)
X 1907 - LAURACEAE - OCOTEA - BUSHY TREE - 6M - (5)
X 1908 - NELASTOMACEAE - TREE - 15M - FLS. WHITE (5)
X 1909 - PALM - 2M - FLS. BRIGHT YELLOW (1)
X 1910 - ACANTHACEAE - FLS. WHITE - LEAVES VARIATED - (1)
X 1911 - ORCHID - EPIPHYTIC - FLS. TAN - (5)
X 1912 - ORCHID - " FLS. MAROON (1)

X 1913 - CRINUM - fls. pale pink - darker pink
line down center of petals

(1)

X 1914 Epiphytic (PARASITIC?) SHRUB - 3 m -
fls. REDDISH BROWN -

(2)

SAVANNAS EAST OF PANAMA CITY - 10 m -³
7-14-39

* 1915 - EUPHORBICACEAE - TREE - 10 m - fls. RED -

(3)



- 1916 Adiantum - On wetstream banks.
- 1917 Tree 10 M. Banks of Rio San Felix
- 1918 Liana - Flowers rose pink.
- 1919 Shrub 2 M. Flowers white.
- 1920 Tree 15 M. Flowers white.
- 1921 About 3 M. inflorescence.
- 1922 Herb growing on perpendicular banks, along trail sides about 800 M. Flowers red & w^{white}
- 1923 Banks along trail sides. 800 M. - flowers white.
- 1924 Shrub 2 M. Fruit scarlet.
- 1925 Fern- On dry banks 800 M.
- 1926 Fern --on dry banks 800 M.
- 1927 Fern. Epiphytic.
- 1928 Common Herb on dry banks --flowers white.
- 1929 Fern --very common on dry banks.
- 1930 Common Herb- flowers white.
- 1931 Small tree 3 M.
- 1932 Very common weed 800 M. - flowers purple.
- 1933 Very common weed 800 M. --flowers white. (probably a form of 1932)
- 1934 Grass. Very common. comprises about 90% of the cover of the Upland.pasture
- 1935 Grass Brysonima. Folia - Tree 10 M. very common.
- 1936 Scarlet.Vine
- 1937 Fern terrestrial 800 M.
- 1938 Fern Epiphytic 800 M.
- 1939 Shrub 2½ M - flower yellow.
- 1940 Fern-Tree- trunk 1¼ m - Dry washes. Full exposure to sun 800 M.
- 1941 Epiphytic- Sepals lavender. Petals cream- lip cream with lemon. yellow throat.
- 1942 Epiphytic Herb. Roots swollen in form of tiny tubars- leaves of plant very minute
Flowers about 5 times size of rest of plant- white with blue markings.
- 1943 Flowers white. Striped lavender. - fragrant.
- 1944 Tree 10 M. Flowers white.
- 1945 (Poor specimens)
- 1946 Fern- Epiphytic.
- 1947 Fern Terrestrial.
- 1948 Herb Flowers blue.
- 1949 Epiphytic shrub - flowers white.
- 1950 Fern epiphytic
- 1951 Fern epiphytic
- 1952 Bracts scarlet- flowers scarlet.
- 1953 Tree 10 M. Flowers deep rose.
- 1954 Small tree or scandent shrub, occasionally reaches 10 meter tall bracts scarlet.
- 1955 Woody Liana. Flowers yellow.
- 1956 Bracts red, flowers red.
- 1957 Fern epiphytic.
- 1958 Tree, 10 meters tall, flowers rose red.
- 1959 Sellaginella.
- 1960 Fern, epiphytic, Very common.
- 1961 Sellaginella

VINCINITY OF ALMIRANTE, PROVINCE OF BOCAS del TORO. MANGROVE SWAMP 0 Meters.
Collected by Mr Hugo Nash flowered in Panama City Aug 20m 1939.

- 1962 Probably Galeandra, lip white margined lavender, sepals & petals brown spur stripe brown, not fragrant in the morning. Flowers pendant.

RIO CHARGRES VICINITY OF GAMBOA C Z 30 meters elevation Aug 25, 1939.

- 1963 Flowers pale lavender, two orange spots.
1964 Liana, Flowers white, striped lavender.
1965 Flowers purple.
1966 Flowers purple.
1967 Shrub, 2 meters tall flowers orange.
1968 Liana, flowers pink. Fragrant.
1969 Floating herb, flowers white.
1970 Shrub, 2 meters tall flowers pink.
1971 Liana, flowers yellow.
1972 Legume, tree 10 meters tall flowers white.

GATUN, C Z. BANK OF STILSON'S POND 30 meters elevation. Sept 10, 1939.

- 1973 Ophioglossum, growing in colonies about a meter across on the banks of city water resevoir. (Note plants on tips of roots)

RIO CHARGRES VICINITY OF GAMBOA CZ 30 meters elev. Sept 12, 1939.

- 1974 Floating herb 1 $\frac{1}{2}$ M. flowers yellow.
1975 Flowers yellow
1976 Shrub 2 M. Flowers tan floating in islands of other vegetation.

EL VALLE de ANTON, 600 meters elev. (Floor of the valley near falls of Rio Anton
Sept 17, 1939.

- 1977 Fern.
1978 Flowers blue, herb. 1 meter tall.
1980 Vine, flowers white.
1979 Parasitic plant, flowers scarlet.
1981 Tree 10 meters tall.
1982 Shrub, 2 M. flowers yellow.
1983 Sedge.
1984 Flowers scarlet.
1985 Sedge.
1986 Herb 1 meter tall flowers white.
1987 Flowers white.
1988 Eulophia? Sepals and petals greenish tan, lip rose growing in bog.
1989 Flowers rose.
1990 Flowers white.
1991 Flowers white.
1992 Tree fern trunk 3 m. tall
1993 Sedge.
1994 Sedge.
1995 Sedge
1996 Herb, growing in bog, flowers white.
1997 Shrub, 2 $\frac{1}{2}$ M. flowers white.
1998 Shout herb, 2 M. flowers white.
1999 Tree 10 M. fruit scarlet.
2000 Ficus, tree 20 M.
2001 Piper shrub 2 M.
2002 Fern.
2003 Piper shrub 1 $\frac{1}{2}$ M.
2004 Tree 20 M. flowers tan.
2005 Tree, legume 15 M. flowers white.

AZOTE CABALLO TRAIL VICINITY OF MADDEN DAM C Z. Elevation about 90 M. Oct 8, 1939.

- 2006 Woody herb, 2 M. flowers white, fruit orange red.
- 2007 Flowers blue.
- 2008 Woody liana clambering in trees 25 M. tall.
- 2009 Shrub $1\frac{1}{2}$ M. flowers rose.
- 2010 Vine. Flowers olive green.
- 2011 Flowers brilliant orange.
- 2012 Tree 15 M. - Flowers royal purple.

TRAIL TO TOP OF CERRO CABRA VICINITY OF FORT KOBE C Z. 0 to 200 M. elev. Oct 15, 1939

- 2013 Sellaginella
- 2014 Thorney scandent shrub, 5 M. flowers white.
- 2015 Showey vine flowers yellow.
- 2016 Scandent shrub 3 M. flowers white.
- 2017 Small tree 5 M. flowers dull purple bracts scarlet.
- 2018 Woody liana, climbing in trees 15 M. flowers rose pink.
- 2019 Growing at upper margin of beach, Shrub or small tree 3 M. flowers yellow.
- 2020 Woody liana, flowers lavender.
- 2021 Along trails in shady woods, flowers yellow.
- 2022 Shrub 2 M tall flowers rose.
- 2023 Orchid Flowers green, Growing in dark wet forest.
- 2024 Dioscorea.
- 2025 Grass.
- 2026 Vine - flowers white.
- 2027 Vine, -flowers blue.
- 2028 On boulders in deep shade.
- 2029 Tall woody herb, 2 m tall flowers rose.

NATIONAL HIGHWAY VICINITY OF PACORA PANAMA PROV. Elev about 10 M. Nov. 5, 1939.

- 2030 Tree 15 M. flowers white.
- 2031 Vine, flowers olive green, fruit in immature condition. $2\frac{1}{2}$ in. long $1\frac{3}{4}$ in diameter
Mature fruits are similarly shaped, but nearly double in dimensions.
- 2032 Vine, flowers pale yellow.
- 2033 Tree 15 M. tall flowers white.
- 2034 Shrub $1\frac{1}{2}$ M. tall flowers purple.
- 2035 Tree 5 M. tall-flowers white.
- 2036 Vine, petals brown, disk maroon, Milky juice.

RIO LAS LAJAS PROV. OF PANAMA) 0 M to 15 M. 11-19-39.

- 2037 Growing in clefts in rocks below Natl Highway Bridge. Leaves very fleshy.
- 2038 Flowers rose purple.
- 2039 Liana - Very common. #####

VICINITY OF JUAN MINA RIO CHAURES 30 M 11-26-39 Collected by Fairchild.

- 2040 Grass 1 to 2 M
- 2041 Plant $1\frac{1}{2}$ M. growing in mud.
- 2042 Floating plant flowers white.
- 2043 Plant Developing floating leaves flowers purple.
- 2044 Flowers purple.
- 2045 Flowers white.
- 2046 Floating Herb.
- 2047 Growing in mud.
- 2048 Floating grass 3 M
- 2049 Floating Grass.
- 2050 Floating grass 3 M.
- 2051 Salvina
- 2052 "

PLAZA DE LA EXPOSICION BELLA VISTA PANAMA CITY O M. 12-6, 1939.

2053 Cultivated tree 25 M. Flowers Bronze Red.

RIO INDIO RIDGE VICINITY OF GATUN C Z Elev. 50 M. 12-7-39
Collected by H P Butcher.

2054 Coryanthes Sp. NOT HUNTERIANA

NORTH RIM OF EL VALLE DE ANTON 1000 M. 12-10-39

- 2055 Epiphytic bracts. scarlet fls yellow. tipped green.
2056 Small tree 3 M. flowers rose. pink pendant.
2057 Orchid epiphytic- flowers tan spotted maroon.
2058 Orchid epiphytic - flowers tan spotted maroon.
2059 Scandent shrub - flowers white.
2060 Fruit only - epiphytic.
2061 Clump bamboo- 4 M. tall canes almost black.
2062 Composit climbing vine. flowers white.
2063 Flowers white.
2064 Terrestrial Orchid - flowers green.
2065 Stemless palm. $1\frac{1}{2}$ M. tall.
2066 Clump palm.- canes 1" in diameter Average 25 canes to clump $3\frac{1}{2}$ M.
Flowers purple- very graceful species.
2067 Epiphytic shrub - flowers rose red.
2068 Epiphytic shrub - flowers yellow- bracts scarlet.
2069 Epiphytic - flowers red & white.
2070 Epiphytic.
2071 Orchid epiphytic - flowers maroon.
2072 Small tree 4 M. - flowers yellow.
2073 Epiphytic Flowers yellow.
2074 Orchid epiphytic - flowers Red brown.
2075 Orchid epiphytic flowers white.
2076 Tree 20 M. flowers white.
2077 Epiphytic Fern.
2078 Epiphytic Flowers white.

CACAO PLANTATION VICINITY OF SUMMIT CZ 80 M. 12-23-39.

2079 Shrub 3 M. - flowers white.

VICINITY OF CHORRERA R DE P 50 M. 12-31-39

2080 ?? Sepals & Petals olive - Eulophia ALTA

CARRO CAMPANA Elevation 600- 800 M. 12-31-39

- 2081 Tree 15 M.
2082 Shrub $1\frac{3}{4}$ M. flowers pink.
2083 Tree 6 M.
2084 Tree 8 M. Myrtacrae flowers white
2085 Tree 12 M. Flowers white.
2086 Single stemmed palm 3 M.
2087 Scandent Herb $1\frac{1}{2}$ M. flowers white fruits green- striped lighter green
2088 Shrub 1 M. Flowers white.
2089 Growing on Boulders. - flowers pale pink. Leaves very fleshy.
2090 Spotted white (Anthurium) Terrestrial
2091 Shrub $2\frac{1}{2}$ M. - flowers yellow.
2092 Tree 15 M. flowers rose pink.
2093 Flowers green.
2094 Tree 6 M. flowers white.

15/10/1940

RIO CHAPRES * VICINITY OF JUAN MINA 1-14-40 Collected by Fairchild.

- 2095 Flowers white.
- 2096 Grass. Floating.
- 2097 Grass. "
- 2098 Sabvinia
- 2099 Floating aquatic plant. *ash Paul*
- 2100 ??
- 2101 Submerged plant. flowers lavender.
- 2012 Submerged Aquatic.
- 2103 Pistia
- 2104 Flowers blue.
- 2105 Floating Herb 1 M.
- 2106 Floating Herb 3/4 M.
- 2107 Flowers a pale yellow

QUEBRADA LOPEZ elev. about 30 M. between CATIVA & NUEVO LIMON
Collected by H P Butcher about 1-15-40

- 2108 ~~LEONORA~~ ?
- 2199 Orchid
- 2110 Stanhopea

QUEBRADA LOPEZ Between CATIVA & NUEVO LIMON ELEV about 30 M 2-11-40

- 2111 Palm to 10 M. trunk & all parts very spiny--leaves about 12 feet long
- 2112 Palm 20 M. spineless- Handsome- without stilts- leaves 25 ft long.
- 2113 Flowers tan.
- 2114 Orchid Flowers red lip maroon. Lip articulated- tops of high trees.
- 2115 Orchid Flowers clear--striped & barred red --in high tree tops.
- 2116 Fern Epiphytic - tops of tall trees.
- 2117 Herb Flowers lavender--on boulders in stream bed.
- 2118 Peperomia
- 2119 Palm 3 M tall - fruits orange.
- 2120 Fern--Growing on boulders in stream. Young -- -- on tips of fronds
- 2121 Orchid sepals & petals yellow - lip white.
- 2122 Flowers white.
- 2123 Herb Growing on wet banks- flowers green.
- 2124 Small tree 2 1/2 M.
- 2125 Herb 2 M Bracts orange.
- 2126 Palm- slender -spineless 2 M.
- 2127 Small tree 4 M. - flowers white.
- 2128 Small tree - 3 M.
- 2129 Sedge
- 2130 Orchid flowers lavender
- 2131 2 M. bracts red tipped yellow flowers yellow
- 2132 Fern, Climbing
- 2133 Palm 3 M. tall.
- 2134 Palm 3 M. "
- 2135 Sedge
- 2136 Herb Flowers lavender. On rocks in stream.
- 2137 Orchid Flowers white.
- 2138 Orchid Flowers pale tan.
- 2139 Orchid Flowers white.
- 2140 Piper Woody Herb 3/4 M.
- 2141 Orchid Flowers striped pink.
- 2142 Fern - on Moist banks. flower white
- 2143 Tree 6 M. flowers brown.

PAUL H. ALLEN - PLANTS OF PANAMA

JUNE - 1940 TO OCTOBER - 1942

NO.^s 2144 TO 2979

vicinity of
SUMMIT FIELDS - JUNE 5-1940
Elevation ABOUT 80 M-

2144 BIGNONIAs - WOODY LIANA - See a white
A NATIVE PLANT - Flowers WHITE
TURNING yellow WITH AGE - (5)

vicinity of CARPANA - 250 M, JUNE 9, 1940
X2145 LEUCOME - TREE - 15 M - Flowers yellow (6)

vicinity of ARRIVAN - 25 M - JUNE 16, 1940

X2146 LEUCOME - TREE 15 M TALL - Fls. yellow (8)

Hills NORTH OF EL VALLE DE ANTON
ABOUT 1000 M - 6-23-40

- X 2147 - Annonaceae s. Tree 10m. - fruit red.
- X 2148 Tree - 4m. - flowers white - fleshy.
- X 2149. Columnnea - fruit white - bracts pink - epiphytic.
- 2150 Palm - 3m - fruit orange.
- X 2151 Remyalma s. - bracts red.
- X 2152 Epiphytic shrub - 1/2 m.
- X 2153 Dedge - epiphytic - growing in tops of trees 10m. tall.
- X 2154 Orchid - flowers green.
- X 2155 Orchid - flowers pink.
- X 2156 Orchid - flowers lavender.
- X 2157 Orchid - flowers pale lavender.
- X 2158 Mardebella - flowers maroon purple - spur yellow.
- X 2159 Orchid - flowers white.
- X 2160 Lockhartia - flowers yellow - lip with orange callus at base.
- X 2161 Margravina - epiphytic shrub - 10m. tall - nectaries reddish brown.

~~2/62~~

- X 2162 *Ericaceae* - epiphytic shrub - 1 m.
flowers purple.
- 2163 *Mimosa* - standard purple - falls
tan.
- NX 2164 *Calceolaria* - Epiphytic - Flowers & BRACTS
scarlet - Tip of flower tube white.
- X 2165 *Aroid* - terrestrial.
- NX 2166 *Gesneriaceae* - Woody herb 1 1/2 m -
terrestrial.
- 2167 *Heliconia* - bracts yellow edged
scarlet. flowers yellow. - 1 1/2 m.
- 2168 *Costus* - bracts yellow. flowers
yellow.
- X 2169 *Sellaginella* -
- X 2170 *Ericaceae* - epiphytic shrub
1/2 m - flowers white. - bracts pink.
- X 2171 *Ericaceae* - epiphytic shrub -
1 m. - flowers scarlet tipped green.
- X 2172 *Orchid* - flowers orange - epiphytic.
- X 2173 *Orchid* - flowers green.
- X 2174 *Zingiberaceae* - flowers white.
- X 2175 *Acanthaceae* - Terrestrial herb - flowers
pink.
- X 2176 *Slender tree* - 6 m. - fruit scarlet.

X2177

Columnnea - bracts pink. - 1 m. - Ep

~~2178~~

epiphytic.

^{new}
~~2178~~

Orchid - flowers green.

~~2179~~

Columnnea - epiphytic - flowers
scarlet

~~2180~~

37 numbers

73 sheets

HILLS NORTH OF EL VALLE DE ARICA - ABOUT
1000M - 7-14-40

- X 2180 TREE - 15M - FLOWERS WHITE ^{very} MAGNANT. (5)
- X 2181 - TREE - 20M - POLYGONACEAE - CECROBARA - FR.
WHITE - (5)
- X 2182 - EUPHARIS ^{Bouchari} - FLOWERS WHITE (1)
- X 2183 - TREE - 10M - (2)
- X 2184 - RUBIAC - CEPHAELIS - SMALL TREE - 2M -
BRACTS ROSE RED - FLOWERS WHITE - FRUIT
BLUE - (5)
- X 2185 COSTUS - 1 1/2 M - FLOWERS OCHRE YELLOW
LABYRINTH RUTICULATED MAROON RED - (1)
- X 2186 - RUBIAC - SMALL SPREADING SHRUB - 1/2 M -
FLOWERS WHITE - (3)
- X 2187 - STEM MADONIA ALFARI? FRUIT ONLY - SMALL
TREE - 3M - (5)
- NX 2188 LOBELIACEAE - SHRUB - 1M - FLOWERS YELLOW (3)
- X 2189 DESNERIA - WOODY HERB - 1M TALL - FLOWERS
SCARLET - (5)
- 2190 CENTROPOMA - FLOWERS - ROSE PINK - 1M TALL (1)
- NX 2191 - COLUMNEA - EPIPHYTIC - BRACTS TIPPED
SCARLET - TUBE SCARLET TIPPED WHITE - (1)

- X 2192 ERICACEAE - Epiphytic SHRUB - MANY BRANCHED
BRANCHES - 2 1/2 M TALL. Fls. WHITE -
CALYX & PETALS ROSE RED - (4)
- NEW 2193 - RESERVA - Epiphytic Herb - (1)
- X 2194 - ORCHID - PLEUROTHALLIS Fls. TAN. (1)
- NEW 2195 - LILIACEAE - TERRESTRIAL Herb - Fls. WHITE - (4)
- X 2196 - JACOBINIA - Sp. ? - SHRUB 1 1/2 M - Flowers -
SCARLET (1)
- X 2197 - ARROID - Epiphytic - SPATHE WHITE. (2)
- X 2198 - ARROID - Epiphytic - SPATHE YELLOW - (2)
- X 2199 - COSTUS - 1 1/2 TO 2 M - SEALS & PETALS LIGHT
TAN - LABELLUM RETICULATED MAROON RED. (1)
- NEW 2200 MAGNOLIA - TREE TO 30 M TALL, Flowers
WHITE - (5)
- 2201 - BRASS - GROWING ON FOREST FLOOR IN
DEEP SHADE - (5)
- X 2202 - SMALL TREE GROWING IN DENSE SHADE
5 M. Flowers WHITE (6)
- NEW 2203 ORCHID - Epiphytic - LEAVES & STEM
RED - SEALS & PETALS pale pink - Lip
WHITE. (1)
- X 2204 ARROID - Epiphytic (1)

- X2205 ORCHID - Epiphytic - Sepals & petals - TAN - Spotted MAROON - (1)
- X2206 ORCHID - Phalaenopsis - fls. TAN - (1)
- X 2207 ERICACEAE - Epiphytic SHRUB - BRANCHES 2 M LONG. BRATS ROSE PINK - Flowers WHITE (2)

25

Hills NORTH OF EL VALLE DE ANTON - 800 - 1000 M - 7-21-40 Collected By A. L. B. FARWELL

- X 2208 ORCHID - Epiphytic - Sepals & petals WHITE - Lip WHITE - Spotted ROSE PINK (1)

Without Locality - From the collection OF MR. JAMES BARRET OF OBISPO C. 2. (Mr. BARRET SAYS ALL OF HIS ORCHIDS ARE FROM PANAMA, BEING HIS OWN COLLECTIONS)

- X2209 CATASETUM? - Epiphytic - Flowers PENDANT - Sepals & petals MAROON - Lip WHITE - streaked & spotted MAROON (1)

BALBOA GARDEN - 8-25-40

12210 *Aristolochia* ^{VAR. VARICATA}, CORKY VINE, FLOWERS
RETICULATED MAROON RED - FLOWERS
PRODUCED FROM CORKY STEMS IN
CLUSTERS - VINE ORIGINALLY COLLECTED
IN THE VICINITY OF EL REAL, PROVINCE
OF DARIEN. LEAVES GREEN WITH VERY
ATTRACTIVE WHITE VEINS - (1)

12211 FERN - CULTIVATED IN THE BALBOA GARDEN (2)

GOVERNMENT FOREST PRESERVE - NEAR
MADDER HIGHWAY C. 2. 8-25-40 75M.

X 12212 FERN - (3)

BAMBOO ORCHID GARDEN - 9/3/40

X 2213 ACROCOMIA, ABOUT 12 M TALL.

SUMMIT OF CARRO CAMPANA - 800 - 1000 M
9/1 - 40

X 2214 Epiphytic Bromeliad - Creeping Ascending
WOODY STEM - Flowers yellow ^{BRACTS PINK} (2)

X 2215 Bromeliad - epiphytic - (1)

2216 Heliconia - bracts scarlet -
flowers yellow - 1 1/2 m. (5)

2217 Crotalaria - 2 m - flowers tan
reticulated maroon. (1)

2218 Calathea - BRACTS yellow - fls. yellow 1 m. tall (5)

X 2219 Calathea BRACTS yellow fls. pale yellow
1 1/2 m. tall (1)

X 2220 - LECYDUM - TREE - 3 m. tall - fls. pale yellow (1)

X 2221 - MARANTA 3 m tall - BRACTS yellow (1)

2222 - MELASTOMACEAE - MYRHECOPHYLLUS

SHRUB - 2 m tall - flowers pink -

TINY SPECIES OF ANT INHABIT IN

SWAMPY PLANTS AT LEAST BASES - (5)

X 2223 - ORCHID - EPIDENDRUM - flower green - (1)

$$\begin{array}{r} 23 \\ 231 \\ \hline 54 \end{array}$$

- 7724 *Epiphytic peperomia* - STEMS SPOTTED (2)
RED -
- 7725- *Sclavineha* - (5)
- X 7726- SMALL TREE - 3M - *Ardisia* NEAR *Seibertii*
Flowers pink - (3)

33

NEAR FOOT OF 9/1/40
Cerro Campana - Province of Panama
10M. Elevation - Collected by
DR. & MRS. H. H. EVANS, OF BALBOA
HILLS, C.Z.

- X 7727 *Leucaena* - TREE - TO ABOUT 20M TALL -
Flowers white, FRAGRANT - Reported
by MR. EVANS AS BEING RATHER
COMMON - (1)

SOUTH RIM OF EL VALLE DE ANTON - Cacha
Province Elevation 700M. 9/8/40

X 2228 Ficus - epiphytic STRANGLER TREE - FRUIT
PINK - (6)

FLOOR OF EL VALLE DE ANTON - 600M -
9/8/40

X 2229 - COCOLOBA - TREE - 15M - ALONG STREAM
BANKS - FLOWERS WHITE - (6)

X 2230 AROID - TERRESTRIAL - ON STEEP BANKS
- IN HEAVY SHADE - (1)

X 2231 LECYTHA - TREE - 15M FLOWERS WHITE -
GROWING ALONG STREAM BANKS - (6)

HILLS NORTH OF EL VALLE DE ANTON -
ABOUT 800M - 9/8/40

X 2232 DIOSCOREA - FLOWERS DULL PURPLE (4)

X 2233 LORANTHACEAE - PARASITIC SHRUB TO $\frac{3}{4}$ M.
TALL - FLOWER TUBE SALMON TIPPED YELLOW (6)

X 2234 KOLEIA - FLOWERS SCARLET. (2)

X 2235 *Kohleria*?

(4)

2236 Bromeliad epiphytic - flowers white.

(5)

X 2237 Gentropogon - Terrestrial herb -
1/2 M. tall - growing in open grass
land - flower tube dark pink - tipped
white.

(7)

X 2238 *Sisyrinchium* - flowers lavender (8)

X 2239 STEMMADENIA - SMALL TREE - 3 M.

YAK - flowers very nearly pure
white - (A VERY pale yellow)

NOT GRANDIFLORA AND NOT ALFARI -

Voyria allenii n.sp.

(5)

NA 2240 Gentianaceae? - Saprophytic?

VOYRIA herb - bracts dull red - flower

ALLENII pink - growing in deep shade (1)

n.sp. STEMS ARISING FROM A MASS OF FIBROUS

ROOTS - TO WHICH THEY WERE CONNECTED -

EITHER THE PLANT HAS AN UNUSUALLY

EXTENSIVE ROOT SYSTEM FOR SUCH

A STENDER ABOVE GROUND STEM OR

IS PARASITIC ON SOME OTHER SPECIES

OF PLANT - THE ROOTS LOOKED A GREAT

DEAR LIKE THOSE OF A NEAR BY
TREE - NOTE ROOTS ATTACHED TO
ONE SPECIMEN -

VICINITY OF PABORA - R. DE P. Elevation about
40 M. Sept. 22 - 1940

X

2241 - Epiphytic CACTUS -

(1)

CERRO CHAME - VICINITY OF CHAME -
25 M. Elevation - Sept. 29, 1940

X 2242 - Woody Liana growing in thick undergrowth (5)

2243 - Solanum - Flowers Blue - Fruit Scarlet -
Vine - Climber on low shrubs - (4)

VICINITY OF CHORRERA - Prov. of PANAMA
20 M. Elevation - Oct. 13, 1940

X 2244

XEROPHYTIC FILMY FERN - Growing on
banks in low scrub.

(6)

Hills NORTH OF EL VALLE DE AYOY -
1000M - 11/10/40

X2245 Epiphytic ORCHID - Flowers Cream
white - (1)

vicinity of Palo Seco - 3M. Elevation
11/17/40

X 2246 Posoqueria sp. Small tree - 3M tall -
in fruit only - NOT P. latifolia
THE FRUITS WITH THE NAVEL OPEN
AT THE END AND SMALL AND ROUND ARE
P. latifolia - THOSE CLOSED -
AT THE END AND ELONGATE - WITH
MUCH BROADER LEAVES ARE - ? (4)

X2247 - Posoqueria latifolia - For
comparison - in case any doubt
THOMAS'S NEED FURTHER PROOF (1)

X2248 - Apocynaceae - vine - Flowers -
greenish yellow (5)

X2249 - *Asclepias* - VINE - Flowers
DARK GREEN -

(1)

BALBOA ORCHID GARDEN - BALBOA C-2,
3 M. ELEVATION - 11/18/40 -

X2250 - *Aristolochia* - VINE - plant ordinarily
FOUND GROWING AT THE C-2. EXPEDIMENT
STATION SUMMIT - STEEL CORN -
Flowers PRODUCED FROM THE STEM
IN CLUSTERS OF 2-3 - Flowers
inner white - Heavily blotched MAROON -
Medicinal but not unpleasant
FRAGRANCE - seemingly a native -

(1)

HILLS NEAR SUMMIT - C-2, 100 M.
11/20/40

X2251 - *Habenaria* - TERRESTRIAL - GROWING
IN DARK COFFEES IN DEEP SHADE -
Flowers DARK GREEN -

(5)

FLOOR OF EL VALLE DE ANTON - ELEVATION
600 M. 11/21/40

2252 - TRIPSACUM LAXUM? CULTIVATED
FORRAGE CROP - 3 M TALL - (3)

X 2253 - MALVACEAE - SIDA? - SHRUB OR WOODY
HERB - 2 M TALL - Flowers yellow -
COMMON - (3)

HILLS NORTH OF EL VALLE DE ANTON -
800 TO 1000 M. 11/21/40

X 2254 ACANTHACEAE - TALL WOODY HERB -
2 M - Flowers pure white - INFREQUENT (1)
NODES PROMINENTLY ENLARGED -

X 2255 - ONCIDIUM - (CHRISTI-BALLI?) EPIPHYTIC
Flowers yellow (1)

X 2256 ORCHID - EPIPHYTIC - Sepals & petals
ORANGE - Lip BRIGHT YELLOW (2)

X 2257 - EPIDENDRUM - EPIPHYTIC - Sepals & petals
GREENISH YELLOW - Lip WHITE - (1)

X 2258 - ORCHID - EPIPHYTIC - Sepals & petals
GREENISH WHITE - Lip MARKED MAROON RED - (1)

X 2259 - ORCHID - EPIPHYTIC - (1)

X 2260 ORCHID - Flowers REDDISH BROWN - ①

X 2261 ORCHID - Epiphytic - BUD BROWN - ①

2262 ORCHID - epiphytic - BRACTS BROWN -
Sepals & petals CREAM - Lip WHITE - ①

X 2263 - ORCHID - epiphytic - Sepals - petals &
Lip WHITE - BOBBER ROSE PINK - ①

X 2264 - ORCHID - epiphytic - Sepals & petals -
CREAMY YELLOW - Lip CREAMY YELLOW
TIPPED MAROON - ①

X 2265 - ORCHID - Epiphytic - ①

X 2266 - ORCHID - Epiphytic - Sepals GREENISH WHITE
- Petals - — GREENISH WHITE —
SPOTTED MAROON - Lip - CRANE - ①

X 2267 - ORCHID - Epiphytic - Sepals & petals
LIGHT BROWN STRIPED DARKER REDDISH
BROWN - Lip MAROON - ①

X2268 - ORCHID - Epiphytic - Flowers pale yellow ①

X2269 - ORCHID - Epiphytic - Flowers greenish yellow ①

2270 - ORCHID - Epiphytic - Flowers TAN - ①

X2271 - ARDISIA - SLANDER TREE - 6M TALL -
Flowers BRIGHT PINK - STAMENS BRIGHT
yellow - SAME AS # 2176 NOT
A. SEIBERTII ①

X2272 Gahaniella - ①

2273 - ORCHID - Epiphytic - Flowers MAROON - ①

X2274 - ORCHID - Epiphytic - Flowers REDDISH BROWN ①

2275 - DIOSCOREA - VINE - Flowers GREENISH
BROWN - CROWN CENTER - ②

X2276 - ORCHID - Epiphytic - ①

X 2277 - BEFONIA - Flowers RED -
(collected by Dorothy Allen)

(1)

X 2278 - ERICACEAE - Epiphytic SHRUB - $\frac{1}{2}$ M TALL
BRANTS BRIGHT PINK - Flowers BRIGHT
Yellow -

(4)

(collected by Dorothy Allen)

2279 - Columnea - Epiphytic - Flowers RED -
(collected by Dorothy Allen)

(3)

GOVERNMENT FOREST PRESERVE - MADON
PAN ROAD - CANAL ZONE - EL. 504 - 11-29-40

X 2280 - WESNERIA - Herb - Growing ON THE SURFACE
OF LARGE Boulders in a stream bed
in deep shade - Flowers pale Blue -

(4)

HILLS NEAR SUMMIT - C.2. 100M -
Elevation - 11/30/40

X 2281 - SCANDENT BAMBOO - ARCHING CANES TO
7 METERS IN LENGTH -

vicinity of Boquete - Prov. of Chiriquí
Ch. about 1300 M. Flowered 12/27/1940

X 2282 - ORELLIA - Flowering in the collection of
MR. S. S. Eliot - Flowers pure white
described as being plentiful - (1)
Flowering on Rocks - NEAR Rio Chiriquí -

DRY SOUTH RIM OF EL. VALLE - Elevation 800M
1/2/41

X2283 - TREE - LEUCOME - Flowers BRIGHT yellow -
TREE ABOUT 8M TALL - (5)

HILLS NORTH OF EL. VALLE - Elevation 800 TO
1000M - 1/2/41

X 2284 - TREE - 6M TALL - Flowers GREEN - BRACED
VERY BRITTLE, leaves giving a pleasant
AROMATIC odor when CRUSHED - (5)

X 2285 - SHRUB OR WOODY HERB - 1 1/2M - ACANTHACEAE,
Flowers BRIGHT pink - (5)

X 2286 - BENONIA - VERY COMMON ON BANKS ALONG
TRAIL - Flowers ROSE RED - (B. Alleni?) (5)

X 2287 - ORCHID - EPiphytic - Flowers pure
WHITE, FRAGRANT - (1)

X 2288 - COLUMNEA - EPiphytic, Flowers RED - (1)

X2289 - ORCHID - Epiphytic - Sepals TAN - petals
& lip TAN - STRIPED BROWN - ①

X2290 - ORCHID - Epiphytic - Flowers LIGHT GREENISH TAN -
STRIPED BROWN - A VERY REMARKABLE PLANT, THE
FLOWERS BEING VERY NEAR TO TRICHODIVIA ①
WHILE THE PLANT GREATLY RESEMBLES BULBOPHYLLUM -

X2291 - ORCHID - Epiphytic - Flowers LIGHT GREEN - ②

X2292 - ORNITHOCAPTATUS Epiphytic - Sepals & petals
WHITE, lip DEEP GREEN - ②

ORCHID collection of A. L. B. FAIRCHILD,
SAN FRANCISCO DE LA CALERA, PANAMA -

X2293 - ORCHID - Flowers WHITE, FRAGRANT, collected
by MR. FAIRCHILD in the hills NORTH OF EL VALLE
DURING JUNE, July 1940 - Flowered 1/1/41
SEEMINGLY THE SAME AS #2287 ①

El Valle de Anton - 600 M -

1/20/41 (Collected by P.H. Allen & A.D.B. Fairbrother)

- X 2294 - ORCHID - Epiphytic on CATACASH TREES - yellow (3)
- X 2295 - ORCHID - Epiphytic on CATACASH - Sepals + petals
yellow, striped red-brown - lip yellow -
ENTIRE PLANT DARK BROWN ^{Red spot at} base of lip (2)
- X 2296 - ORCHID - Epiphytic on CATACASH - Sepals + petals
greenish yellow - lip green - (3)

HILLS NORTH OF EL VALLE DE ANTON - VICINITY
OF LA MESA - EL. ABOUT 1000 M - 1/21/41

- X 2297 - BENONIA - Epiphytic - Fls. pink - (5)
- X 2298 - PODOCARPUS - STERILE SPECIMEN - (2)
- X 2299 - LAURACEAE - SMALL TREE - 4 M - (1)
- X 2300 - ACANTHACEAE - SHRUB - 1 1/2 M - Fls. scarlet - (2)
- X 2301 - ACANTHACEAE - TREE - 6 M - Fls. scarlet - (4)
- X 2302 - BORAGINACEAE - SMALL TREE - 3 M - Fls. white - (4)
- X 2303 - PALM - 4 M - Fruit yellow - (1)
- X 2304 - SOLANUM - Tall woody herb - 1 1/2 M - Fls. tan -
FRUIT SCARLET - UNDER SIDES OF LEAVES PURPLE - (4)
- X 2305 - BESLERIACEAE - Epiphytic - Fls. bright yellow -
COROLLA LIPS SCARLET - UNDERSIDES
OF LEAVES TOPPED & SPOTTED BLOOD RED - (2)

- X2306 - MAXILLARIA - Epiphytic - Fls. white - (1)
- X2307 - ORCHID - pseudotulip - Epiphytic - (1)
- 2308 - ERICACEAE - Epiphytic SHRUB - 7' M. tall - (1)
 Small pink - Fls. yellow -
- X2309 - Columnnea - Epiphytic - Fls. scarlet - (5)
- X2310 - Epipendrum Alleni - Epiphytic - (1)
 Sepals & petals white - later dark - (1)
 Bracts red - (1)
- X2311 - Columnnea - Fls. red - Epiphytic
- 2312 - Epiphytic SHRUB - 3' M. tall - Fls. white - (2)
- X2313 - LOCKHARTIA - Sepals & petals yellow - (1)
 Yellow - reddish brown spots at base - (1)
- 2314 - Saprophyte - FORTINACAEAE - Fls. pale lavender - (1)
- X2315 - ORCHID - TERRESTRIAL - Fls. green - (2)
- X2316 - ORCHID - Epiphytic - Fls. white - (1)
- X2317 - ORCHID - Epiphytic - (pseudotulip) Fls. brown - (1)
- X2318 - LOCKHARTIA - Epiphytic - Fls. yellow - (1)
- X2319 - POLYSTACHIA - Epiphytic - Fls. yellow - (1)
- X2320 - VOYRIA Alleni - Saprophyte - Fls. pink - (1)
- X2321 - CEPHAELIS - SHRUB or small tree - (5)
 2 1/2 M - Bracts orange - Fls. white - (5)

- X 2325 - CYCLANTHUS - TERRESTRIAL - (1)
- X 2326 - ORCHID - TERRESTRIAL - FL. GREEN - (1)
- X 2327 - ACANTHACEAE - TALL WOODY HERB - 2 1/4 M -
Fls. PRACTICALLY BLACK - (3)
- X 2328 - KOFFERIA - FL. RED - (1)
- X 2329 - ERICACEAE - EPIPHYTIC SHRUB - 1 1/4 M TALL -
BRACTS - PINK - FL. GREENISH YELLOW - (5)
- X 2330 - DESNERIACEAE - EPIPHYTIC STANDANT SHRUB -
3 TO 4 M - LOW - FL. ROSE PINK - (2)
- X 2331 - CALATHA - HERB - 1 1/4 M - FL. WHITE - (1)
- X 2332 - GIANT EPIPHYTIC SHRUB OR TREE - 8 M TALL -
FL. DARK RED - STAMENS WHITE - (1)
- 2333 - BRONELIAD - EPIPHYTIC - BRACTS SCARLET
FL. BRIGHT YELLOW - (1)
- X 2334 - CACTUS - EPIPHYTIC - NIGHT FLOWERING FL. WHITE (1)
- X 2335 - ERICACEAE - EPIPHYTIC SHRUB - BASE OF
COROLLA TUBE CORAL PINK - TIP WHITE (3)
- X 2336 - COLUMNEA - EPIPHYTIC - PENDANT PLANT - COROLLA BRIGHT
RED - BRIGHT YELLOW BAND AT DIVISION LINE OF COROLLA
LOBES - (1)
- 2337 - ERICACEAE - EPIPHYTIC SHRUB - 3 M TALL -
PETALS & CALYX DARK PINK - COROLLA DARK PINK
BASE 2/3 TIPPED WHITE - (1)

650.00

3800.00

1500.00

- X 2338 - ORCHID - ~~Phaeo~~ *Phaeo* *Phaeo* - Sepals & petals
MAROON - EDED TRANSLUCENT GREENISH
WHITE - Lip MAROON. (2)
- X 2339 - ORCHID - Epiphytic - *Phaeo* *Phaeo* - Fls. white (1)
- X 2340 - FERN - Growing in HUNG colonies in tops
of HUNT TREES - plant having a creeping -
rooting stem, with low (2M.) branching
leafy stems. (5)
- X 2341 - BENONIA - TERRESTRIAL - Fls. white. (2)
- 2342 - GESNERIACE - Epiphytic woody HERB -
Two upper corolla lobes coral pink -
3 lower corolla lobes white, spotted
coral pink. (2)
- X 2343 - LOBELIACEAE - Epiphytic woody HERB -
Fls. REDDISH BROWN. (4)
- X 2344 - Epiphytic SHRUB - 2M - Flowers white (2)
- X 2345 - RUBIACEAE - VINE - Fls. white. (3)
- 2346 - CUCURBITACEAE - VINE - CALYX BRIGHT
ORANGE - COROLLA BRIGHT YELLOW (2)
- X 2347 - COMPOSITAE - Epiphytic SHRUB 2'LM
Fls. Yellow (1)

- X 2348 - Columnnea - Fls. Red - Egyptian ①
- 2349 - Vitaceae - Epiphytic SHRUB 1m -
Fls. Rose pink - ③
- X 2350 - Tree - 15m - Fls white - ④
- X 2351 - ORCHID - Egyptian - BACKS OF SEALS
& petals ^{violet} BLUE - FRONTS OF SEALS & petals
TAN - Spotted BROWN - BASE OF Lip
yellowish BROWN - ENTIRE Frontal LOBE
OF Lip & Tips OF Side lobes Violet
BLUE - ①
- X 2352 - ORCHID - Egyptian - Fls. TAN - ①
- X 2353 - Columnnea - Epiphytic - Fls. Scarlet ③
- X 2354 - ORCHID - Epiphytic - Sepals & petals white
with center line OF ^{Frontal lobe OF} MAROON & Lip white
with many parallel MAROON purple lines -
BASE OF Lip & column GREEN - ①

33
25
22
24
117 SHEETS
59 NUMBERS

Vicinity of CHERO - Prov. of PANAMA -
30M. 1/30/41

X 2355 - ORCHID - Epiphytic -

(1)

Vicinity of SUMMIT - C. Z. 2/1/41
Elevation about 60M.

2356 - ORCHID - Epiphytic -

(1)

Vicinity of PACORA - Prov. of PANAMA -
20M. Elev. 2/8/41 collected by T. R. OLSON

X 2357 - Epiphytic sepals & petals REDISH BROWN
MARGINES TRANSPARENT GREEN - lip white, (1)
with attenuated processes REDISH BROWN -

RIO INDIO - PROVINCE of COLON, 3-8-41 - 25M.
Collected by MR. H. P. BUTCHER -

X 2358 - MABDENALIA, Epiphytic -

CASA LARDA - RIO INDIO TRAIL, VICINITY OF MADDEN
DAM. C. 2. 120M. 4/8/41 - Collected by MR.
WALTER R. LINDSAY -

X 2359 - *WESNERIA*, TERRESTRIAL, GROWING IN LARGE CLUSTERS
IN FOREST SHADE - FLOWERS NEARLY WHITE, (A VERY PALE
LAVENDER)

VICINITY OF CHEPO - RIDE P. 20M - 4/6/41

X 2360 - *ONCIDIUM* (PANAMENSE?) EPYPHYTIC, IN LARGE CLUSTERS,
FLOWER SPRAYS USUALLY 2-2 1/2 M IN LENGTH - SEPAL
AND PETALS YELLOWISH BROWN, WITH NARROW EDGE OF YELLOW
LABELLUM YELLOW, WITH LARGE RENIFORM ORANGE BLOTCH
NEAR CALLOS -

11/4/02 Record that
2005 would

vicinity OF LA MESA - NORTH OF EL VALLE DE ANTON,
PROV. OF COCHLE - ABOUT 1000 M. 4/12/41

X 2361 - ONCIDIUM, epiphytic, Pseudobulbs densely spotted
black, Sepals & petals densely blotched rich chestnut
brown - tips of sepals & petals yellow - Lip
broad, spreading, yellow, with broad band of
rich chestnut brown at base of callos - (1)

X 2362 - PESCATORIA - Epiphytic - Sepals & petals white,
two lower sepals with lower greenish yellow blotch
near base, Labellum rich yellow, with crested
callos - Ridges of callos rich red-brown - (1)

X 2363 - SELLAGINELLA, growing as colonies of creeping -
rooting plants in dense shade - lower anchor
roots produced at intervals - entire plant - roots
stems & leaves a rich coppery brown - (6)

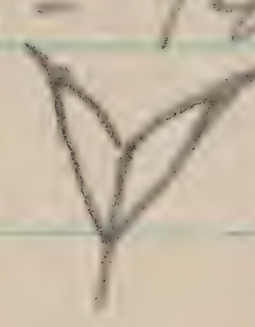
2364 - STEMADENIA - SMALL TREE ^{2 1/2 M} - Flowers a very
pale yellow - NOT ALTAMI (4)

Floor OF EL VALLE DE ANTON - ABOUT 600 M.
4/12/41

X 2365 - SHRUB - 3 M, very common along trails (3)

VICINITY OF LA MESA - NORTH OF EL VALLE DE
ANTON - PROV. ST. COCHE - ABOUT 1000M. 4/14/41

- X 2366 - ASCLEPIAD - VINE, CLIMBERING IN SECOND GROWTH.
FLOWERS GREEN - (4)
- X 2367 - ERICACEAE - MUCH BRANCHED EPIPHYTIC SHRUB - 2 1/2 M.
FLOWERS PRODUCED FROM OLD BRANCHES IN CLUSTERS -
CALYX & PETIOLE BRUSH PINK, BASAL 3/5 OF COROLLA
BRUSH PINK, TERMINAL 2/5 PURE WHITE - (1)
- X 2368 - BROMELIAD - EPIPHYTIC - INFLORESCENCE MUCH
BRANCHED - TALL - ERECT SHEATHING BRACTS SCARLET,
CALYX BRIGHT YELLOW, FLOWERS BRIGHT YELLOW (2)
- 2369 - WOODY HERB - FAIRLY COMMON ALONG TRAIL TO
LA MESA - FLOWERS YELLOW - TIPPED GREEN - (3)
- X 2370 - MELASTOMACEAE - SHRUB - 2M - FLOWERS TINY -
SEPAL & PETAL PINK - STAMENS PURPLE -
- X 2371 - MESNERIACEAE - WOODY HERB - 1 1/2 M - FL. YELLOW (5)
- X 2372 - COMPOSIT - SCANDENT SHRUB - 4M - FL. WHITE (6)

- X 2373- ERICACEAE - SHRUB - 1 1/2 M - GROWING ON BANKS
MOUNT TRAILS, INFREQUENT, FLOWS - DEEP PURPLE (3)
- X 2374- SOLANUM - SMALL TREE - 3 M - FL. LAVENDER, PENDANT (3)
- X 2375- ERICACEAE - EPIPHYTIC SHRUB - 1 M - BRACTS SHEDD
PINK - FLOWERS GREENISH YELLOW -
- X 2376- GRASS - TALL - SCANDENT BAMBOO LIKE GRASS - 3 M (2)
- X 2377- GRASS - (2)
- X 2378- ^{Epiphytic} BROMELIAD - INFLORESCENCE GREAT, TOWER LIKE,
BRACTS ^{slightly} LONG - ^{slightly} SERRATE - SHEDD PINK - FLOWERS
PALE LAVENDER - LEAVES ^{slightly} SERRATE - ^{flowering plant} ABOUT 16" TALL - (1)
- 2379- PALM - 6 M - SMOOTH LIXES NATTUNK - 4" IN DIAMETER, FRUIT
YELLOW - (1)
- X 2380 - CYCANTHUS - TERRESTRIAL HERB - 3/4 M TALL - LEAVES
BROAD - BIFID  (1)
- X 2381 - ORCHID - EPIPHYTIC - EPIDENDRUM - SEEDS & PISTILS
YELLOWISH GREEN - WITH MANY SMALL DARK SPOTS
LABELLUM YELLOWISH WHITE - (2)

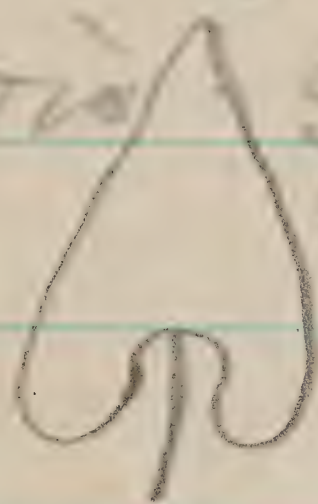
14" tall



X 2382 - Bromeliad - Epiphytic - Leaves tinted coppery red - inflorescence erect - Very short bracts - Bracts scarlet - Ovary enclosing fruit bright yellow - (2)

X 2383 - Bromeliad - Epiphytic - Leaves tinted coppery red - inflorescence erect - Single flower in erect bract. Bracts scarlet. Ovary bright yellow - 12" tall - (1)

X 2384 - Aroid - Epiphytic - Spathe greenish white - Fruit red - (1)




Fls. Rhipsalis

X 2385 - ERICACEAE - Epiphytic shrub - Much branched - 2m - stems square - flowers pinkish lavender -

X 2386 - ORCHID - Epidendrum thomsonianum? Epiphytic - in fruit - flowers - Backs of sepals & petals violet blue - fronts tan - spotted rich red - brown - labellum violet blue - turning to brown with age - quite variable as to size & coloring - (2)

X 2387 - Bromeliad - Epiphytic - fls. white -

X 2388 - MAXILLARIA - Epiphytic - Sepals & petals scarlet - labellum bright yellow - like a slender form of M. Fendleri - dense clusters of flowers - (1)

X 2389 - ORCHID - EPIDENDRUM - DENSE TERMINAL PANICLE OF
SMALL FL. atop a long leafy stem $\frac{3}{4}$ M tall -
Sepals & petals green - lig white, streaked to base
column - 3 lobes  MARKED WITH PURPLE - (1)

X 2390 - SHrub TREE - 3M - FL. WHITE - (2)

X 2391 - SMALL TREE - 3M - FL. WHITE - (2)

2392 - CENTROPHEA - STOUT WOODY HERB - 2M - FL. pink
IN DENSE HAZARD - MILKY JUICE - (4)

X 2393 - ^{Statis} PLANTAGINACEAE - FLOWERS BROWN - (1)

X 2394 - Columnia - Epiphytic - prostrate fleshy stems - 1M tall - leaves
tipped 1/4 blood red on under side - calyx firm & dried,
woody - red - corolla orange - (3)

X 2395 - Pilea - HERB - 10" - FL. & fruit pink - (5)

X 2396 - LEBENIA - SHRUB - 2M - FL. ORANGE (Row in 12002
column) (6)

X 2397 - COMPOSIT - VINE - FL. WHITE - (3)

X 2398 - BIGNONIAE ? - WOODY SCANDENT SHRUB OR LIANA GROWING
ON SCRUB IN SECOND GROWTH - Flowers lavender - (4)

X 2399 - PASSIFLORA - VINE - flowers deep lavender - (3)

Floor of El Valle de Anton - ABOUT 650 M -
4/12/41

2400 - TREE - GROWING ON RIVER BANKS - 20 M - fl. white (4)

Valley in Hills SOUTH OF EL VALLE DE
ANTON 700 M - Plant flowering in cultivation
8/15/40 -

X 2401 - TRICHOPIA - Flowers pure white, no
spots - NOT SUMMIT (1)

Hills NORTH OF EL VALLE DE ANTON - 1000 M - 4/12/41
(Area across saddle above MANUELITA plateau)

X 2402 - ACINETA, epiphytic - flowers - pendant -
white - (A. DENSATA?) Base of leaf yellow (1)

ANCON HILL - C.Z. 100M - 4/16/41

- X 2403 - BIGNONIA - VINE - OR LIANA WITH LEAST PERSISTENT
STEMS - FLOWERS ORANGE-YELLOW - (3)
(TREES ACROSS FROM GOVERNOR'S HOUSE)

TOP OF (WET)

CAMPANA HILL, VICINITY OF CAMPANA - PROV. OF
PANAMA - ABOUT 800 TO 1000 METERS - 5/21/41

- X 2404 - COLUMNEA - TERRESTRIAL ON STEEP BANKS -
CALYX PALE GREENISH YELLOW - COROLLA RICH
YELLOW - WITH PARALLEL ROSE LINES INSIDE
COROLLA TUBE - MATURE LEAVES WITH A ^{SINGLE} RED SPOT ^{NEAR APEX.} (1)
- X 2405 - ORCHID - EULASTAE - EPiphytic, BRACKS &
FLOWERS BRIGHT YELLOW - (DWARF - 10" TALL) (1)
- X 2406 - ERICACEAE - EPiphytic - DWARF SHRUB - 1M -
COROLLA TUBE RED - TIPS OF COROLLA LOBES GREEN (1)

DRY SLOPES OF CAMPANA HILL - VICINITY OF
CAMPANA - PROV. OF PANAMA - ABOUT 600 M. 5/21/41

- X 2407 - LAMINA - TERRESTRIAL HERB WITH FLESHY ROOT &
BRIGHT YELLOW PAPILLOUSCIOUS FLOWERS GROWING
IN VERY DRY & ROCKY PLACES - (1)


MOIST UPPER REGION OF CERRO CAMPANA - VICINITY
OF CAMPANA - PROV. OF PANAMA - ABOUT 1000 M - 4/2/41

X 2408 - MELASTOMACEAE - SHRUB - 1/4 M - FLOWERS PINK - (2)

X 2409 - AEROID - EPIPHYTE - SPATHE YELLOW (LIKE A TINY YELLOW CUP) (1)

2410 - AEROID - EPIPHYTE - SPATHE & SPADIX GREEN - (1)

2411 - PIPER - WOODY HERB - 2 M - LEAVES DARK GREEN -

UPPER SURFACE LIKE ARIADNA HIDE  (2)

X 2412 - DESNERIA - WOODY HERB - 1/4 M - (1)

X 2413 - DESNERIA - TERRESTRIAL - GROWING IN DENSE

SHADE - FLOWERS BLUE - (6)

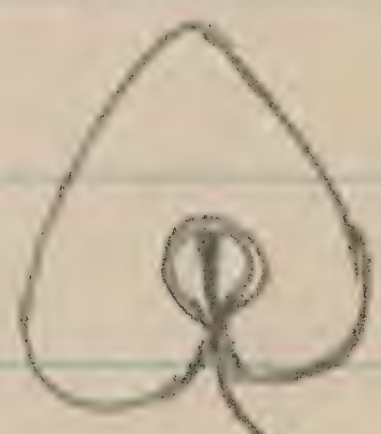
X 2414 - BROMELIAD - TERRESTRIAL - FLOWERS RED - (1)

X 2415 - AEROID - EPIPHYTE - SPATHE GREEN - SPADIX GREEN (1)

X 2416 - VOYRIA ALLENII - (1)

X 2417 - CYCLANTHOS - LEAVES - 2 M TALL - (2)

X 2418 - AEROID - EPIPHYTE - SPADIX WHITE - (1)

X 2419 - AEROID - EPIPHYTE - STANT LEAVES - SPATHE
GREEN - NARROW - 2 CM WIDE - ABOUT 15 CM LONG -
MUCH TWISTED - SPADIX
GREEN - FRUITS WHITE WHEN MATURE -  (1)

X 2420 - CYCLANTHOS - EPIPHYTE, CLIMBING PLANT - FORMS
LARGE COLONIES ON SIDES OF TREES - (1)

X 2421 - ERICACEAE - EPIPHYTE SHRUB - FRUIT LAVENDER (3)

X 2422 - ERICACEAE - EPIPHYTE SHRUB - 1/4 M - FLOWERS
PURPLE - (2)

- X 2423 - Columnnea - epiphytic - UPRIGHT - FLESHY CANES
3/4 M TALL - 2 - TO MANY RED - TRANSLUCENT SPOTS
IN LEAVES - (3)
- X 2424 - PODOCARPUS - SEEDLING TREE - (1)
- X 2425 - Heliconia - PENDANT WOOLLY DARK RED INFLORESCENCES -
FLOWERS YELLOW - LEAVES - 3M TALL - (3)
"CHICHICA MONTAÑA"
- X 2426 - MARANTACEAE - 3M - (1)
- X 2427 - COSTUS - 2M - BRACTS ^{RED} BARRANCO LIKE OPEN PINK
CONES - FLOWERS TUBULAR - YELLOW - "CAÑA
AGRIA" (2)
- X 2428 - Columnnea - epiphytic - FLOWERS SCARLET - (3)
- X 2429 - RUBIACE - WOODY HERB - 1/2 M - FLOWERS PINK -
ROUND FRUIT RED - IN AXILARY CLUSTERS - COMMON (1)
- X 2430 - AEROID - epiphytic - SPATHE GREEN - SPADIX GREEN - (1)
- X 2431 - Bromeliad - epiphytic - LOWER BRACTS SKILL
PINK - UPPER BRACTS - YELLOW - TIPPED WHITE -
FLOWERS YELLOW (1)
- X 2432 - Columnnea - FLOWERS SCARLET (1)
- X 2433 - AEROID - epiphytic - SPATHE GREEN - SPADIX YELLOW (1)
- 2434 - LILIACEAE - FLOWERS WHITE - (1)
- X 2435 - Bromeliad - epiphytic - (2)

X 2436 - AEROID - TERRESTRIAL - SPATHE GREEN - BROAD -
SPADIX SHORT THICK - GREEN -

(1)

X 2437 - PODOCARPUS - GIANT TREE - 35 M TALL -

TRUNK 1 1/4 M THICK AT BASE - BARK BROWN -

WITH LONGITUDINAL FISSURES - "QUAHAU"

(1)

DRY SLOPES OF CAMPANA HILL - VICINITY OF

CAMPANA - PROV. OF PANAMA - ABOUT 600 M. 5/2/41

X 2438 - Slender Tree - 7 M. - flowers white -
"Mamecillo?"

(5)

X 2439 Sedge -

(2)

X 2440 Legume - small tree - stamens
pink - 3 M.

(3)

X 2441 Ruellia - terrestrial - growing
in very dry location - flowers
large - lavender.

(1)

X 2442 Tree 4 M. - flowers tan - common
along sides of grassland "Pinto
Mozo"

(3)

X 2443 Legume - dwarf herb - very large
purple flowers - growing on very
dry stony banks.

(1)

- X 2444 Legume - flowers pink - very large woody - unbranched liana climbing in trees 5m. Tall - common (6)
- 2445 Woody vine - flowers yellow - Marcgravia (1)
- X 2446 Shrub or small tree - 3m - flowers pale pink - bark smooth - reddish brown. "Guayabita Montaña" (5)
- X 2447 Small tree - 3m - flowers white. (6)
- X 2448 Marcgravia - flowers yellow - common (4)
- X 2449. Passiflora vine - flowers white - stamens yellow - "Marbo" (2)
- X 2450 Small tree - 3m - fruit black - reported as edible - "Nito" (3)
- X 2451 Tree 8m - flowers white - fruit red - "Malageto" (2)

MOIST UPPER REGION OF CERRO CANYARA -
ABOUT 1000 M. ELEVATION - 5/21/41

- X 2452 EPIDENDRUM - EPIPHYTIC - FLS. TAN - (1)

CANAL ZONE EXPERIMENT GARDEN - SUMMIT - C.Z.
75M - 4/29/41 collected by MR. CARL. TRASSER -

X 2453 - ORCHID - TERRESTRIAL - GROWING IN DAMP
PLACES NEAR BAMBOO - Sepals & petals.

Pale GREENISH TAN - lip WHITE - Flowering
without LEAVES -

(3)

HILLS NORTH OF EL VALLE DE ANTON - ELEVATION
ABOUT 1000M - 4/30/41

X 2454 - SOBRALIA - (BOUCHÉ?) BACKS OF SEALS LIGHT

GREEN - FRONTS OF SEALS & BOTH SURFACES OF

PETALS. PINK - LABELLUM PINK - FRONTAL $\frac{1}{3}$

DEEP ROSE RED - FIMBRATED - NUMEROUS RAISED
YELLOW LINES RUNNING FROM NEAR THE FRONTAL

PORTION TO NEARLY THE BASE OF THE COLUMN (1)

VICINITY OF BEDOCO - ABOUT 50M elevation
5/6/41

2455 - ANNONACEAE - TREE - 12M - Flowers yellow

(8)

X 2456 - BAUHINIA - SHRUB - COMMON ALONG ROAD SIDES -

THORNY - Flowers LARGE - WHITE - 2M -

(B. PAULETIA?)

PERS.

(3)

2457 - LEGUME - TREE - 12M - (FABACEAE) Flowers white, (4)

X 2458 - BIGNONIA - LIANA - Flowers PINK - THREAT
OF COROLLA yellow

(1)

REGION NORTH OF EL VALLE DE ANTON - TRAIL TO
LAS MINAS - ELEVATION ABOUT 1000M - 5/10/41

- X 2459 - COSTUS - 1 1/2 M - Fls. white ①
- X 2460 - TREE - 12 M TALL - PETALS FLESHY - BACKS OF PETALS
GREEN - FRONTS WHITE, BACK HALF OF STAMENS
WHITE, APICAL PORTION DEEP PURPLE ⑨
- X 2461 - URTICACEAE - UREA? - SCANDENT SHRUB - 4 M -
Fls. clustered along the branches - PINK ②
- X 2462 - AROID - EPIPHYTIC - LIANT 3 PARTED LEAVES -
TIPS OF LEAF 3 SECTIONS ROUNDED - SPATHE
GREEN - SPADIX BROWN - ②
- X 2463 - ORCHID - TERRESTRIAL - Fls. pure white ①
- X 2464 - TREE - 15 M - Fls. white, STAMENS yellow - FRAGRANT ⑥
- X 2465 - SLENDER TREE - 15 M - FLOWERS GREEN ③
- X 2466 - BROMELIAD - TERRESTRIAL - UNDERSIDES OF LEAVES
BRONZE - BRACTS OF INFLORESCENCE DEEP BRONZE
FLOWERS yellow - STAMENS ORANGE - ②
- X 2467 - BROMELIAD - EPIPHYTIC - BRACTS SHAL PINK -
FLOWERS WHITE - EDGES OF LEAVES SEPARATE ①
- X 2468 - HUGE TREE - 20-30 M TALL - + TRUNK 1 M AT BASE
BUT AVERAGE SMALLER - 20 M - 3/4 M AT BASE -
FLOWERS LARGE - BUTTER YELLOW - LIKE WAX
HIBISCUS - VERY SHOWY - ^{continued} (over)

(CONTINUED)

X 2468 - 5- Sepals - 2 narrow-acuminate, green -
2 somewhat wider - butter yellow - with
strongly developed green - acuminate mid rib
1- inter mediate between the former two -
with strong mid rib & 1 yellow vein -
5- wide petals - alternating with the
sepals - butter yellow - ovary superior (8)

X 2469 - Columnnea - Epiphytic - calyx maroon - with green
serrations - undersides of leaves deep rose pink -
Corolla bright yellow - (2)

X 2470 - Pilea - Climbing on trees & boulders - fls. pink - (2)

X 2471 - ERICACEAE - CAUENDISHIA? Epiphytic shrub -
1m - Fruits blue - (2)

X 2472 - Tree - 20m - slender trunk - flowers green -
stamens white - (4) (4)

Hills South of El Valle de Anton - Elevation
about 1700 meters - 5/9/41 -

X 2473 - Tree 20m - or less - Fls. pale pink - Common (5)

X 2474 - EUPHORBACEAE - (superficially much like RHECEDIA) 8m tall
fruit orange - agreeable to taste - yellow sap
as in HARCINIA - (8)

2475 - MANDEVILLA HIRSOYA - (1)

X 2476 - Tree 6m - fruit pink - flowers green (4)

X 2477 - RUBIACEAE - ISEPTIA - small shrub or stout
herb - 1m - RANK'S RED - fls. yellow - common (3)

X 2478 - FICUS - Tree - 12m - (4)

X 2479 - Small tree - EUPHORBACEAE? - 4m - (2)

X 2480 - MELASTOMACEAE - Tree - 12m - fls. white - common (4)

2481 - CORDIA? - Tree - 15m - fls. white - (4)

2482 - EUPHORBACEAE - CROTON? - Tree - 15m - fls. white,
common - (2)

REGION NORTH OF EL VALLE DE ANTON - TRAIL TO
LAS MINAS - ELEVATION ABOUT 1000 METERS -

5/10/41

X 2483 - COLUMNEA - Epiphytic - BRANCHES 1M LONG -

Calyx Red - Corolla Red -

(7)

X 2484 - Apocynaceae - STEM MADONIA - TREE - 8M -

(NEAR THE FINCA OF DON NAPOLEON)

(2)

9

HILLS NORTH OF EL VALLE DE ANTON - VICINITY OF
LA MESA - ABOUT 1000 METERS ELEVATION - 5/11/41

- 2485- *Columnnea Allaxii* - Epiphytic - Calyx green -
Corolla red - plant pendant ①
- X 2486- *Vitis* - woody vine - common - ⑥
- X 2487- *Polygalaceae* - shrub or woody herb - 1' tall -
Sepals deep violet, Petals blue - lip blue,
Apex yellow - ②
- X 2488- Scandent shrub - 4m tall - flowers white - ④
- X 2489- *Tesneria* - Epiphyte - Calyx green - with
pubescence of minute red hairs - Corolla
cream yellow - with minute red pubescence -
under sides of leaves deep rose pink -
plant erect - ①
- X 2490- *Heliconia* - leaves - 2m tall - bracts hirsute,
in flower erect - bracts deep yellow -
edged brilliant scarlet - flowers yellow ②
- X 2491- *Anacardiaceae* - Bonakea? - vine outside
of sepals shell pink - inside pale pink,
small green knob on outside tip of each
sepal - a few scattered red spots near
apex & inside sepals - petals pale pink
densely spotted red-brown - narrow area
is a blotch near apex - anthers slate gray ①
- Roots - fleshy
tuberous

2492

2492- BYRSONINA - TREE - 15M - KNOWN locally AS
"NANCE" AS IS ALSO B. CRASSIFOLIA - ONLY
IN BUD - BUT FLOWERS REPORTED AS yellow -
NOT B. CRASSIFOLIA

(4)

Hills south of El Valle de Antón - elevation
about 700 meters - 5/9/41

- ²⁴⁹³
X ~~2493~~ - TREE - 6 M - COMMON - SYZYGIUM? - (3)
- ²⁴⁹⁴
X ~~2494~~ - LANTANA - SHRUB - 1 1/2 M - Fl. orange - greenish
red with age - very common (L. camara?) (1)
- ²⁴⁹⁵
X ~~2495~~ - PITHECOLOBium - TREE - 10 M - Fl. dirty white,
seed pods much twisted, scarlet. common - (3)
- ²⁴⁹⁶
X ~~2496~~ - MELASTOMAC - SHRUB - 2 M tall - Fl. white -
(common - near zamias) (4)
- ²⁴⁹⁷
X ~~2497~~ - BYRSONIMA - ? - TREE - 12 M - Flowers yellow -
fruit orange-red. (Front of Valle Hotel.) (8)
- ²⁴⁹⁸
X ~~2498~~ - LAURACEAE - TREE - 15 M - (NEETANDRA) (7)
- ²⁴⁹⁹
X ~~2499~~ - FERN - VERY COMMON ALONG TRAILS & EDGES OF WOODS -
2 1/2 M tall - LIKE PTERIS - MUCH BRANCHED - (2)
- ²⁵⁰⁰
X ~~2500~~ - ERICACEAE - SPRAWLING SHRUB - 4 M, TRUNK
6" DIAMETER - ONLY FRESHY - PINK - COROLLA
yellow - (RIDGE NEAR S. LEUCOXANTHA) (4)
- ²⁵⁰¹
X ~~2501~~ - CHUSIA - LARGE STRANGLER TREE - 12 M - COMMON
Along ROAD - (2)
- ²⁵⁰²
X ~~2502~~ - MELASTOMAC - SMALL TREE OR SHRUB - 5 M -
Flowers white - common - (5)
- ²⁵⁰³
X ~~2503~~ - BIGNONIACEAE - LIANA - COROLLA PINK - INSIDE yellow (1)

- ²⁵⁰⁴
● 2504 - Smilax - THORNY VINE - FLOWERS GREEN - (2)
- ²⁵⁰⁵
X 2505 - MYRSINACEAE - ? TREE - 10M - (4)
- ²⁵⁰⁶
● 2506 - EUPHORBACEAE - TREE - 6M - Fls. GREENISH, SUB-
TENDED BY A WHITE BRACT - FRUIT GREEN - (3)
- ²⁵⁰⁷
X 2507 - VOCHYSIA - TREE - TO 20M - USUALLY 10-12M -
Fls. ORANGE - STRONG PUMPKIN ODOR - (2)
- ²⁵⁰⁸
X 2508 - TREE - 8M - FLOWERS WHITE - COMMON - (2)
- ²⁵⁰⁹
X 2509 - MELASTOMACEAE - SHRUB OR SHRUB - 2M - FLOWERS
Pale PINK - (4)
- ²⁵¹⁰
● 2510 - SHRUB OR SMALL TREE - 1-TO 6 METERS - (3)
Flowers white -

FLOOR OF EL VALLE DE ANTON - ABOUT 600 METERS

ELEVATION - 5/9/41

²⁵¹¹
~~2511~~ - TERRESTRIAL HERB - COROLLAS WHITE - CENTRE
YELLOW -

(2)

Hills south of La Valle de Arroyo - Elevation
ABOUT 700 METERS - 5/9/41

- X 2512 - TREE - 12M - PSIDIUM-LIKE REDDISH SMOOTH
BARK - SLENDER ERECT TREE - (4)
- X 2513 - PLEUROTHALLIS - EPYPHYTIC - SEEDS & PARTS PALE
LAVENDER - STRIPED PURPLE - TIP SPOTTED PURPLE - (2)
- X 2514 - TREE - 15M - COMMON - (2)
- 2515 - MELASTOMACE - SMALL TREE OR SHRUB - 3M - (2)
- 2516 - TREE - 5M - FRUIT BLACK (NEAR CAMP SITE) (4)
- X 2517 - SAPINDACEAE - WOODY VINE - FLOWERS WHITE - (4)
- X 2518 - CEPHAELIS - SHRUB 1 1/2 M - BRACTS RED - (2)
- X 2519 - TREE - 4M - (SYZYGIUM) COMMON - (3)
- X 2520 - BYRSONIMA CRASSIFOLIA - VERY COMMON TREE -
FLAT TOPPED - 8M - FLOWERS ORANGE - (2)
- 2521 - SMALL TREE - (STERILE) 3M - FLS. TAN (SEE CERRO
CAMPANA COLLECTION - BRACKEN & UNDERGROWTH)
LEAVES RED-BROWN - (1)
- 2522 - MELASTOMACE - SHRUB - 3/4 M - FLS. PINK - CHUSTAKAD
ALONG STEMS - COMMON - (2)
- X 2523 - MELASTOMACE - LARGE SHRUB - 3M - COMMON - (3)
- X 2524 - PSIDIUM - SMALL TREE OR SHRUB - 1 1/4 - 2 1/4
METERS - COMMON - ON DRY ROCKY GRASSLAND
FLOWERS WHITE - (3)

- X 2525 - *Ficus* - Tall SPREADING TREE - 15M - (2)
- 2526 - *TOURNEFORTIA* - SCANDENT SHRUB - 5M - FLs. WHITE (2)
- X 2527 - SHRUB - 1 1/2 M - COMMON - (2)
- X 2528 - LIANA - GROWING IN TREES - 8M TALL - FRUIT
RED - ATTRACTIVE - (4)
- X 2529 - SCANDENT SHRUB - 2M - VERY COMMON -
FRUIT ORANGE - (2)

10.

Region NORTH of EL VALLE DE ANTON - TRAIL
TO LAS MINAS - ABOUT 1000M. ELEVATION 5/10/41

- X 2530 - *STEMMADENIA ALFARI* - SMALL TREE - 2 1/2 M - (1)

CERRO AZUL - NEAR PACORA - PROV. OF PANAMA
ABOUT 700 M - COLLECTED BY A.D.B. FAIRCCHILD
5/18/41

- X 2531 - *MAXILLARIA* - FLs. WHITE - LABELLUM MARKED
CHESTNUT BROWN LINES LONGITUDINAL ON
LOWER SURFACE - LIKE A DWARF M. LUTEA-ALBA (1)
- 2532 - *MASDEVALLIA* - EPiphytic - Sepals WHITE - SPURS
YELLOW - Flowers TERMINAL IN PAIRS - (1)
- X 2533 - *PLEUROTHALLIS* - EPiphytic - FLs. WHITE - (1)

Hills NORTH of EL. VALLE DE ANTON -
VICINITY OF LA MESA - ABOUT 1000 M. 5/11/41

- 2534 - *Euterpe* - Single stem slender palm - TRUNK
ABOUT 60 FT TO BASE OF CROWN SHAFT. TRUNK
8" AT BASE - COLUMNAR - WITH VERY LITTLE
VARIATION IN DIAMETER - (5" AT BASE OF CROWN-
SHAFT.) TRUNK WHITE. LEAVES PINNATE,
WITH 100-120 PINNAE, 10' in LENGTH
ABOVE CROWN SHAFT, LEAF BASES ^(CROWN SHAFT) BROWN,
COVERED WITH MINUTE SCRUFFY SCALES,
HABIT AS IN ROYSTONIA, MID RIB OF LEAF
COVERED WITH CONSPICUOUS SCRUFFY-RED
BROWN SCALES - LEAFLETS USUALLY ALTERNATE,
BUT RARELY OPPOSITE, STRONGLY REDUPPLICATE
AT THE BASE - PINNAE LONG ATTENUATE,
TERMINATE, ABOUT 32-36" in LENGTH,
WITH 1 STRONG MID VEIN, & 2 WEAKER
SIDE VEINS, MID VEIN WITH SCRUFFY
BROWN SCALES, THE ENTIRE LENGTH OF
THE PINNAE, LATERAL COSTAE WITH MUCH
LESS SCALES; INFLORESCENCE INFRA-AXILLARY,
CLASPING THE TRUNK, 2-OR 3 - FRUITS ROBUST -
WITH PERSISTENT STYLE SLIGHTLY TO ONE

2534 (CONTINUED) SIDE OF THE APEX. ALBUMAN
PLAIN, EMBRYO DIRECTLY BASAL.

2535- Palau ^{NOV. 15th?} (commonly accepted as *ASTROCARYUM*)
3 ft TO BASE OF LEAVES, TRUNK 5" AT BASE,
ANNULAR ANKLED SCARS, TRUNK PERFECTLY
SMOOTH, WHERE LEAF PETIOLES HAVE FALLEN
AWAY - USUALLY OLD PORTIONS OF SHEATHING
LEAF BASES ARE PERSISTENT, ARMED WITH
BLACK ANKLED (NOT FLAT AS IN *ASTRO.*) SPIKES.
OLD LEAF BASES PERSISTENT FOR ABOUT
30" BELOW CURRENT LEAVES, FORMING A
FORMIDABLE ARMOUR - ABOUT 1 1/4" WIDE & 30"
LONG, BELOW FRUIT CLUSTERS & SPATHES.
SPATHES INTRAFOLIAR, VERY SPINY, PERSISTENT,
(AS CONTRASTED WITH THE DECIDUOUS SPATHES
OF *ASTRO.*)

FRUIT CLUSTERS ERECT ON VERY SHORT
PEDUNCLES. FRUITS DENSELY CROWDED ON
SHORT, UNBRANCHED RACHIS. FRUITS VERY
SPINY - WITH PRONOUNCED APICAL BEAK.
LEAVES ABOUT 9-10' LONG - BIFID

- 2535- (CONTINUED) AT THE apex. Pinnate, with basal pinnae free, mid pinnae fused together in very broad sections, tips serrate, bases strongly reduplicate, under sides of pinnae glaucous grey - mid rib armed with spines.

BALBOA ORCHID GARDEN, MAY 21, 1941

- 2536- ARCHONTOPHOENIX - (ALEXANDRAE)?
CULTIVATED IN THE BALBOA ORCHID GARDEN.

MADDER ROAD - C. 2. FOREST PRESERVE,
ABOUT 50 M. ELEVATION, 5/30/41.

2537 - *ASTROCARYUM STANDLEYANUM* -

2538 - *BETTRIS BARRONIS* - ? FORMING DENSE CLUMPS OF
9-12 CANES - MATURE CANES - ABOUT 2 M TALL, REACHING
5 M TO TIPS OF FRONDS. CANES VERY SPINDLY TO
BASE, SPADICES INTRAFOLIAR. MATURE CANES
CARRYING NORMALLY 9 LEAVES.

2539 - *DEONOMA BIVERVIA* ? - SINGLE TRUNK - SMOOTH,
TRUNK - 8' TO BASE OF LEAVES. INFLORES ~~can be~~
INFRAFOLIAR -

2540- *Ficus* - SCANDENT TREE? - CHIMBIN & ROOTING
AT INTERVALS, NODES ENLARGED - HOUSING colonies
OF ANTS - PETIOLES PRODUCING ROOTS. 8M -

SUMMIT GARDENS - ELEVATION ABOUT 30M - ? -
5/28/41

2541- *ARECANTOPHOENIX ALEXANDRAE* (CULTIVATED)

Vicinity of Beluco - 5/31/41 elevation about 8M.

- 2542- COCOLOBA - TREE - 6M - (Species that so commonly harbors plants of *Epiphyllum atro-purpureum* etc.)

TABONILLA ISLAND - 6/1/41 elevation about 10M -

- 2543- BACTRIS - Slender colonial species, growing in woods with *Bomarea's Fendleri*, *Bromelia Pinquin* etc., on slopes very close to the sand beaches. Canes slender, often twisting or almost scandent, or occasionally procumbent on surrounding vegetation. Canes 2-3 cm in diameter, & averaging 4M tall, with many mature fruiting canes to 6M. Leaves tufted at the tops of the canes, 5-6, the sheathing leaf bases very spiny, with long sheathing, imbricate, persistent bases ^(26 cm long.) - Spines averaging 1-2 cm, with a few much longer (5-6 cm) spines on the leaf petiole. Spines grayish white, slightly flattened -

2543 - (CONTINUED) UPPER PORTION OF SHEATHING LEAF
BASES WITH A FIBROUS MARGIN OF A COARSE
NETWORK OF FIBER & DRYISH WHITE SPINED -
NETWORK PROLONGED ABOVE POINT OF DEPARTURE
OF LEAF PETIOLE 6-8 CM.

OLD SHEATHING LEAF BASES & PETIOLES &
SPINY RACHAE OF THE OLD LEAVES PERSISTENT
FOR MUCH OF THE DISTANCE BELOW THE LIVE
LEAVES, LEAF PETIOLES FLATTENED ON UPPER
SURFACE, CONVEX VENTRALLY - 20 CM LONG
WITH A SPARSE COVERING OF SHORT GRAY
BLACK POINTED SPINES - 5-9-MM, AND A
FEW LONG, FLATTENED, GRAY, BLACK POINTED
SPINES - 2 1/2 - 6 CM LONG.

RACHIS OF LEAF ^{NEARLY TERSE} 175 CM LONG - NOT COUNTING ^{MINUTE GRAY} ^{LEAVES WHICH} ^{WEATHER AWAY}
THE BIFID APEX. PINNAE 65-75, ROOSTING
OPPOSITE, BUT OFTEN WITH SEVERAL PINNAE
MISSING ON ENTIRE SIDE, LEAVING GAPS
IN THE ARRANGEMENT. BASAL PINNAE LONGEST
28 CM LONG & 2 1/2 TO 3 CM WIDE, TAPERING EVENLY
TOWARD THE APEX TO PINNAE 10-12 CM LONG
& 9-12 MM WIDE, APEX BIFID, PINNAE 2 CM
WIDE & 9-12 CM LONG

2543-

(CONTINUED) ^{4 MEDIAN} ~~Basal~~ Pinnae LINEAR, acuminate,
WITH THE SIDES STRAIGHT, VERY NEARLY PARALLEL,
APEX OFTEN SLIGHTLY SPLIT, WITH ONE LOBE
PROLONGED ABOUT 1-1.5 CM BEYOND THE OTHER.
Pinnae WITH A WEAKLY DEVELOPED MID VEIN, AND
VERY INCONSPICUOUS SIDE VEINS, MARGINS VERY
MINUTELY SETOSE.

SPADICES INTRA FOLIAR, 4-6 PERSISTENT FOR
A LONG PERIOD. SPATHES 2, ONE LONG
LINEAR, ACUTE, INCISED; CONTAINING THE LONG
PEDUNCLE IN THE SHEATHING LEAF BASES, OUTER
SPATHE 30 CM LONG & 2 CM WIDE. INNER
SPATHE WITH A LONG SLENDER BASE, SURROUNDING
THE SLENDER PEDUNCLE, & BECOMING BOAT LIKE,
HOODER, COVERING THE INFLORESCENCE. UPPER
EXPANDED PORTION VERY SPINY, GREY. WITH
MANY SHORT 4-6 MM BRISTLY BROWN SPINES.
EXPANDED PORTION OF INNER SPATHE - 14-16 CM
LONG - 6.5-7.5 CM WIDE AT THE MEDIAN
MEASUREMENT. INNER SPATHE ACUMINATE,
ENDING IN A PROLONGED POINT PERIOD OF
SPINES, 1-1.5 CM LONG.

2543 (CONTINUED) POUNCHE 28-32 CM LONG, 6 MM
IN DIAMETER, ROUNDED, SLIGHTLY FLATTENED.
RAKES 2.5-4 CM LONG, SIMPLY BRANCHED,
RAKHILLAE 6-9 CM LONG, 1.5 MM IN DIAMETER.

Colonies of 6-12 CANES - WITH LONG
INTERNODES BETWEEN CANES.

VICINITY OF NEVADODOROT - PROV. OF PANAMA
5/31/41 ON ELEVATION -

2544 Bromelia pinguin, growing in thickets of
SACQUINIA, HYPOCAERIS, ACANTHOCERAS etc.
Flowers ROSE PINK - (3)

SUMMIT GARDENS - C. 2. JUNE 5/1941 -

2545 Palm - CULTIVATED AS "PTYCHOSPERMA ANGSTIFOLIA"
UNARMED - STOLONIFEROUS, 9 CANES - 2-3 INCHES IN
DIAMETER, PROMINENTLY ANGLULAR - MATURE CANES 18"
TALL - BEARING 4-6 LEAVES - FRUIT BRIGHT RED -
SPADICES INFRA FOLIAR, SPATHES - 2 - DECIDUOUS,
OF EQUAL LENGTH. OUTER SPATHE STRONGLY

2545 (CONTINUED) CONVEX ON VENTRAL SURFACE & CONCAVE DORSALLY - WITH BRUIST BROWN MINUTE SCRUFFY SCALES ON VENTRAL SURFACE WHICH WEATHER AWAY. INNER SPATHE LONG-ACUMINATE, FLATTENED DORSALLY & CONCAVE VENTRALLY, WITH DENSE COVERING OF MINUTE BRUIST BROWN SCALES WHICH WEATHER AWAY. Apex of INNER SPATHE WITH SPARSE COVERING OF LARGER REDISH-BROWN SCALES - PARTICULARLY ON THE MARGINS - OUTER SPATHE $1\frac{1}{2}$ - $1\frac{3}{4}$ " WIDE - $7\frac{1}{2}$ - $8\frac{1}{2}$ " LONG.

PETIOLE & RACHIS OF LEAF WITH A COVERING OF SCRUFFY RED BROWN COMPARATIVELY LARGE SCALES THAT WEATHER AWAY. CROWN SHAPE WELL DEVELOPED - 14-16" LONG. PETIOLE ANNULAR - CONVEX VENTRALLY & STRONGLY CONCAVE DORSALLY. PINNAE IRREGULARLY SPACED - NOT OPPOSITE, 72-80 - PINNAE WITH STRONGLY DEVELOPED MID RIB - & INCONSPICUOUS WEAKLY DEVELOPED LATERAL COSTAE - Apex of PINNAE VERY UNEQUAL - CONSPICUOUSLY GROSSE - ONE LOBE BEING $1\frac{1}{4}$ - $1\frac{1}{2}$ " LONGER THAN THE OTHER - PINNAE PERFECTLY GLABROUS - ON BOTH SURFACES -

2545 - (continued) Pinnae $\frac{3}{4}$ - 1" wide at the middle
15 - 18" long. Strongly Replicate at the
Base - Peduncle of inflorescence very short,
2" including the clasping Base. Rachis
branched. Horizontal in fruit - 12 - 14" including
peduncle - Rachilla grayish white, very heavily
terete, covered with scruffy red brown minute
scales which weather away. Rachilla
5 $\frac{1}{2}$ - 7" long.

Summit Gardens - 6/8/41

2546 - Plant known as "Melinophloeus sandwicensis"

8-15 canes - green - annular - swollen at
base - 3-5" diameter 3' above base - mature
canes - 18-20' tall - spathe - 2 - deciduous -
with numerous minute, scruffy grey scales
which weather away - leaves 4-6 in number -
pinnate, with a well developed crown shaft
16-20" long - Petiole with numerous scruffy
grey scales which weather away - Petiole
strongly convex ventrally & concave dorsally
pinnae dark green on both surfaces - smooth
with a well developed mid rib - & poorly developed
lateral costae -

2546 (continued) Pinnae very irregularly spaced - with conspicuous gaps between them - tips erose - unequally lobed - one lobe being 2 - 2 1/4" longer than the other - Pinnae strongly re-duplicate at base - leaves with 42-50 pinnae, rather broad - widest 2 1/4" at middle, pinnae 13-17" long. Spadix inflexed, horizontal at maturity, with minute scurfy grey scales which wear away - peduncle very short - 2 1/4" including leafy base - rachis annular - rachilla annular at base - with apical 5/6 nearly terete - fruits red at maturity, seeds weakly sulcate, albumen plain - not ruminate - fruit nearly globose - with pronounced "beak" or persistent style.

2547 - PTYCHOSPHERA eleans - Palm usually called "Scaevola" locally - single stem - unbranched - trunk annular - 12' to base of crown shaft, fruit red at maturity - albumen ruminate -

2548 - Heterospatha elata -

2549- *Dictyospermum album* var. *rufum* -

2550- *Artocarpus* - collected in ARMOUR plot -

Small Bushy Tree - 4M - Fruits yellow -

NUEVA NORWENA - PROV. OF PANAMA OM -

6/15/41

2551- *Bactris* - SAME sp. as # 2543 from Taborish

Colonish - FORMING DENSE CLUMPS OF STERILE SPENT

(2-3)M - CANES in exposed places - WITH 10-

100 CANES - OR TALL - 4-5-M CANES - CURVED

OR SCANDENT, ^{UNDER SHADE} WITH WIDE SPACING BETWEEN CANES.

Colonies GROWING IN SHADE SATURD EXCEEDING

6-10 CANES - MATURE CANES WITH 3-5 LEAVES

OLD LEAF PETIOLES & SPINY RACHIS PERSISTENT

FOR NEARLY THE ENTIRE LENGTH OF CANE -

LEAVES PINNATE, WITH PINNAE SET AT ANGLES

TO EACH OTHER, NONE BEING HORIZONTAL TO

THE RACHIS, ALL BEING ASCENDING. OLD

SPATHES & SPADICES PERSISTENT - 3-5 IN NUMBER

PLANTS CONSISTENTLY STRAY IN APPEARANCE. COMMON TO

BANKS ABOVE SEA BEACHES -

2552 - *Jatropha curcas* - Plant so commonly for Hedges - ①

2553 - *Melia azedarach* - Escaped from cultivation ①

X 2554 - *Thaeneticia nitida*? - SHRUB - OR SMALL TREE - 3M -
Fls. yellow - ②

X 2555 - *Hippomane manzanillo* - Tree - 10M - ③

VICINITY OF CABUYA - PROV. OF PANAMA - 6/15/41

X 2556 - *Zinniberanassa* - Herb - Terrestrial - Fls. yellow - ④

X 2557 - *Cedrela* - Tree - 10M - Fls. white, FRAGRANT ⑤

Rio NATUN - Colon Province, 50M Elevation, 6/1/41
Collected by MR. H. P. BUTCHER

X 2558 - *Stelis* - Flowers close on my irritation. 8.4 P. ①
GREEN - Lip dull purple, hairy - Column white, with
purple markings.

Llano sucio - vicinity of Puerto Pilon, Colon Prov.
Elevation about 65 M. 5/30/41 - collected by -
MR. H. P. BUTCHER -

X 2559 - *Stelis* - Red & yellow sepals & petals - Lip nearly
all yellow - with red spots at base - ①

AFF. *Kaffuistrinia* *costaricensis* BOLLER.

X 2560 - *Chondromyza* - Flowers nearly white, rim of ①
lip spotted red-brown - disk watery red-brown -

X 2561 - *Cataglyphis* *bicolor* - Epiphytic - Sepals & petals
reddish purple - - ①

Vicinity of TADORA DAM - C.Z. Elevation about 80m -
5/22/41 (TADORA CROSSING)

X 2562 - SHRUB - 2M - Flowers pinkish orange (Isentia)? ④

X 2563 - *Psychotria* - SHRUB OR BARK TREE - 3M - Fls. white - ⑤

2564 - *Thevetia* *peruviana*? ①

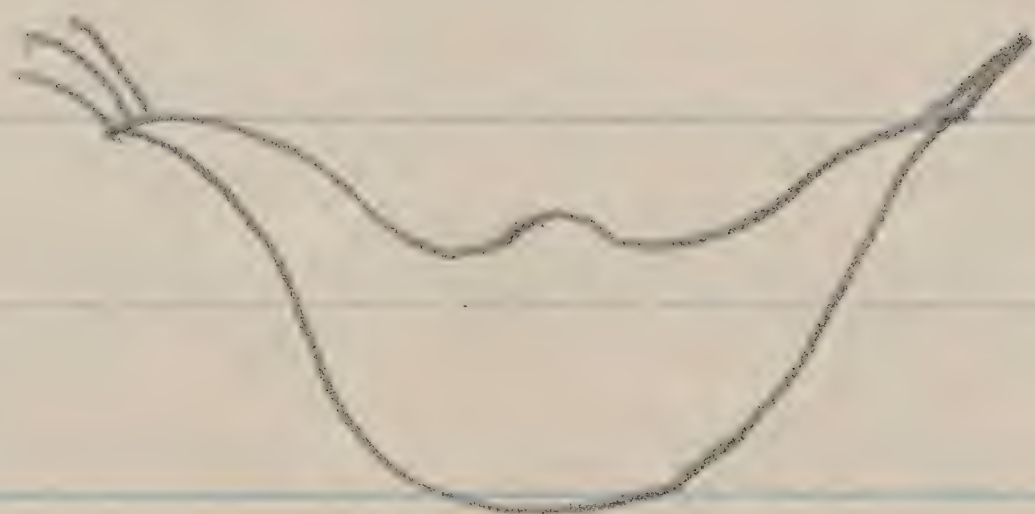
El Valle de Antón - vicinity of La Mesa -
About 1000 M. Elevation - 6/22/41

2565- *Calyptranoma*? - Single stemmed unarmed palm - About
60 - 70 FT. Tall - Trunk About 1 FT. in diameter
at the base - Leaves pinnate, large - ascending
in a dense crown - Spathe 2 - deciduous -
outer woody - ridged - inner leathery - ridged -
spathe in the leaf - usually 1 or 2 - persistent

Leaf petiole to base of first pair of
pinnae - 34" Reticles from base of first pair
of pinnae to top of frond 157" About 140 -
160 Pinnae - strongly parallel ridged - Repetition
at base - with basal lobes. Basal pinnae
3.5 - 5.5 cm. wide - 55 - 75 - cm long -
Broadest pinnae - (near middle of frond) 8 - 11
cm. wide at middle - 100 - 115 cm long -
long acuminate - strongly parallel ridged -
Terminal pinnae narrow - 1.5 - 2.5 cm
wide, 10 - 15 - cm long - Leaf petiole
woody - clasping the trunk - 7" wide -
markings interlaced with short cord like
fibers -

Basal 14" strongly concave within, ridged
convex without. inner surface above 14"
flat, outer surface convex.

Patella cross section at base of first
pair of pinnæ -



Patella very densely covered with minute
tortoise-like red-brown scales - some of
which weather away -

2566 - RUNNERA - growing in ditches or precipitous
banks - leaves - RHUBARB - like - HUE - about
5-6' in diameter - RACHIS IT IN FLUXES GREEN
PINK - FRUITS ORANGE - Plants about 2' tall ①

2567 - BATHIA - very slender palm - inconspicuous
spines which weather away - single stem
1 1/4 m - tall ①

X 2568 - BYRSORHIZA - TREE - 12m - Flowers yellow ⑥

X 2569 - DESVERIEA - Liana or scandent shrub - 4 m -
Flowers pink - ②

X 2570 - ORELLA - epiphytic - plant pendant, leaves
grey - Flower terminal - GREEN - ①

X 2571 - ARDISIA - SHRUB - 1 1/4 m - Flowers ^{bristly} pink -
stamens yellow - NOT A. SEIBERTII ④

VICINITY OF EL CARMENO - PROV. OF PANAMA.
ELEVATION ABOUT 400 M - 6/25/41 - COLLECTED
BY MR. JAMES ZETEK - MR. ZETEK REPORTS
THE FRUITS AS HOSTS FOR FRUIT FLIES.

X 2572 - TREE - FRUITS YELLOW -

(2)

ORCHIDS RECEIVED FROM GUATEMALA BY
MR. CHAS. H. BARTH - DIABLO MTS. IC. 2.
FLOWERED JULY 2ND - 1941 -

X 2573 - ORCHID - LABELLUM WHITE, SEPAL & PETALS
GREEN - BARRED DORSUM -

(1)

SOUTH SLOPE OF EL VALLE CRATER -
ELEVATION ABOUT 650 M - 7/2/41 -
COLLECTED BY P. H. ALLEN & DAVID FAIRCHILD -

2574 - BACTRIS - SMALL CLUMPS - 2-3 MATURE
CANES - 3M TALL - WITH SEVERAL SHORTER
IMMATURE CANES - CANES ABOUT 1" IN DIAMETER
AT BASE - USUALLY CARRYING 3-4 MATURE
LEAVES - SPADICES - NEARLY INFLORESCENCED
(AMONG OTHER DRIED KAT BASES -)

● 2574 - (CONTINUED) LEAVES CONSPICUOUSLY HERBACE - (2)

● VICINITY OF LAS UVAS - (EL VALLE DE ANTON)
ELEVATION ABOUT 100M - 7/2/41 Collected by
P.H. Allen & DAVID FAIRCHILD -

X 2575 - Sapium - TREE - 10M - (4)

● DRY SLOPES (SOUTH) OF EL VALLE DE ANTON
ABOUT 750M - 7/2/41 Collected by P.H.
Allen & DAVID FAIRCHILD -

X 2576 - DWARF HERB - ON ROADSIDE BANKS - FL. PINK - (1)

X 2577 - ARDISIA SEIBERTII - SHRUB - 2M - ^{3M} FL. LAVENDER - (5)

X 2578 - TREE - 10M - FRUITS ORANGE - (4)

● EL VALLE DE ANTON - VICINITY OF LA MESA
ABOUT 1000M. ELEVATION - 6/22/41

● X 2579 - LOCKHARTIA OBTUSATA LAM. (1)

vicinity of Far Far - C.2. 7/3/41

0M -

2580 - *BACTRIS* - SAME AS # 2543 & # 2551

FLOOR OF EL VALLE DE ARROYO - ABOUT

600 M - 7/5/41 - Collected by A. W. B.

Fairchild -

X 2581 - *LYCASTE* - *POWELLII*? - Sepals pale green -

with CHESTNUT BROWN central blotch -

Petals nearly white, with many small

pink spots - Labellum pale yellow - shading

to pale pink at apex - ①

X 2582 - *TRICHOPILOIS MACULATA*? - Fls. pure white

with pale yellow markings in throat - ①

PEDRO FONSECA - PERLAS ISLANDS - PANAMA Bay -
0-20 M - 7/5/41

- X2583 - SAPIND - TREE - 15 M - GROWING AT EDGES
OF ROCKY TIDEWATER - FL. RED - (3)
- X2584 - VITACEAE - VERY COMMON VINE - GROWING
ON ROCKY NEAPLANS ON NORTH OF THE ISLANDS - (2)
- X2585 - Hibiscus thiaucos - TREES - 4-6 M - COMMON - (1)
2586 - EUPHORBIA - COMMON ALONG SEA BEACHES (also on SAGUNA) (2)
- X2587 - GRASS - COMMON ALONG SEA BEACHES (also on SAGUNA) (2)
- X2588 - PROSTRATE COMPOSITE COMMON BACK OF SEA
BEACHES - (also on TRAPICHE) FL. yellow - (2)
- X2589 - Apocynaceae - VINE - FL. yellow - (1)
- X2590 - Asclepiad - VINE - FL. yellow - (1)
- X2591 - STERIMADENIA GRANDIFLORA - (2)
- X2592 - HERB - FL. WHITE - (2)
- X2593 - SMALL TREE - 6 M - INVA - FL. WHITE - (2)
- X2594 - RUBIACEAE - SHRUB - 2-3 M - FL. ORANGE RED - (3)
- X2595 - STEROMIACEAE - SHRUB OR SMALL TREE - 2-4 M. (2)
- X2596 - GRASS - 1 M - (BAMBOO LIKE DWARF SPECIES) (2)
- X2597 - RUBIACEAE - (also on TRAPICHE) - SHRUB 4-6 M - (4)
PINKISH yellow -
- X2598 - TREE - 6-8 M - (2)

²⁵⁹⁹
X 2599 - Tree 6M - Fruits - Pink - (2)

²⁶⁰⁰
X 2600 - *Bombacopsis Fendleri*? - Huge trees -
10-20-25M - tall - trunks - 2-3M thick

very spiny - common on Rocky Highlands - (3)
²⁶⁰¹
X 2601 - *Aprica* - Tree - 8M - Fls. yellow - (1)

²⁶⁰²
X 2602 - *Coccoloba* - growing on sea beaches -
multiple trunks - 6M - (4)

²⁶⁰³
X 2603 - *Hibiscus* - 1 1/2M - (1)

²⁶⁰⁴
2604 - *Sabal mauritiformis*? - "PALMA DE GUAYAMA"

commonly used for thatch throughout the
islands - Reported to never grow on
Pedro Gonzalez and the mainland -

Slender palms - trunk about 1 ft at base

Ringed - 50' - 60' to base of leaves -

Crown open - of 20-30 live leaves -

with usually 5-7 dead leaves hanging

below a pile of accumulated dead leaves

on ground near trunk - inflorescences -

erect - equaling the leaves in length -

leaves deeply divided in distinct segments.

Petioles split at base forming typical

"BOOTS" Boots not persistent
as in some species.

Leaves silvery gray beneath - AREEN
ABOVE - (1)

2605 - *NEONOMA* - Palm - 30' - "PORTO RICO"

Slender unbranched Palm - Stem Ringed -
4-5" Diameter - Spadix INTERFOLIOSE - (1)

TRAPICHE Island - OFF COAST OF PEDRO
DOMINGUEZ - PERLAS ISLANDS - 7/4/41 0-15M -

2606

X 2606 - *CRATGEA* - SCANDENT SHRUB Along Rocky
Beaches - 4M - (3)

2607

X 2607 - *ACHRAS* - TREE - 10-15M - "Nispero" (2)

2608

X 2608 - *BRASSAVOLA NODOSA* - Common on trees & Rocks
Flowers white - (2)

2609

X 2609 - *SAPOTACEAE* - TREE - 10-15M - "Mameyito" (3)

2610

X 2610 - *JUSTICIA SUPREBA* - Very Common - 6-8M - (1)

2611

X 2611 - *HYPOCHERIS* - TREE - 15M - Sea Beaches - (2)

2612

X 2612 - *BYRONIA* - TREE - 15-20M - Fruits orange - (3)

2613

X 2613 - *CORPUS* ? - TREE - 10M - Fls. white - Sea Beaches - (2)

2614

X 2614 - *BACTRIS* - SAME AS # 2543 - 2557 & 2580

Forming dense gray branched clumps at water
TIDE MARK - 20 OR MORE CAVES TO THE CLUMPS. (1)

- X 2615 - MELASTOMACEAE - TREE - 10M - SEA BEACHES -
COMMON - (2)
- X 2616 - MANGROVE - GROWING AS ISOLATED SPECIMENS
ON ROCKY BEACHES - (2)
- X 2617 - MELASTOMACEAE - SHrub - 1 1/2 M - FLs. PINK - (3)
- 2618 - Piper - SHRUB - 1 1/2 M - (3)
- X 2619 - COSTUS - 2M - COMMON - FLs. yellow (1)
- X 2620 - Fern - (2)
- X 2621 - TREE - LEUCOMELASTOMA - 10M - VERY COMMON ALONG
ROCKY BEACHES - JUST ABOVE TIDE MARK -
(ALSO ON PEDRO BONZATE) FLs. yellow (3)
- X 2622 - SHRUB OR SMALL TREE - 2M - FRUIT PINK - (3)
- X 2623 - RUBIACEAE - SHRUB - 2M - FLs. white -
(ALSO ON PEDRO BONZATE) (3)
- X 2624 - GRASS - CHUSQUEA? - 1 1/2 M -
- X 2625 - HYMENOCARPIUS LITORALIS - FLs. white - GROWING
JUST ABOVE HIGH TIDE MARK, & ABOVE ROCKY
HIGHLANDS ON TRAPIQUE, PEDRO BONZATE &
SABONA - VERY COMMON - (2)
- 2626 - SCIERIA - 1 1/2 M - (3)
- X 2627 - TREE - 12 M - (SAME AS 2609?) (3)
- X 2628 - TREE - 5 M - FLs. yellow - FRUIT CRANIE -
(COMMON ON PEDRO BONZATE) (2)

X 2629 - TREE - 4M - FRUIT ORANGE - (3)

X 2630 - TREE - 15M - Fls. pale yellow (3)

X 2631 - SLANDER TREE - 10M - Fls. WHITE - (3)

X 2632 - TREE - 10M - (3)

X 2633 - TREE - 10M - Fls. WHITE - (3)

SABONA - PERLAS ISLANDS - OM - 15/6/41

X 2634 - PORTULACA - growing in dense woods
on SEA BEACHES - Fls. PINK - (3)

VICINITY OF POLICE STATION - UPPER RIO PEQUINI
MADON LAKE AREA - C. Z. ELEVATION ABOUT
100M - 7/29/41 - COLLECTED BY A. S. B.
FAIRCHILD & DANIEL JOBBINS -

2635- ENTARPE - OR PRESTOEIA - DENOCARPUS TREE - ABOUT
7M TALL - ^{SLENDER - UNARMED -} TRUNK RINGED - 5 CM IN DIAMETER
SPADICES INFRAFLORAL - SPATHES - 2 -
OUTER - 20 - 22 - CM LONG - INCLUDING THE
CLASPING BASE - DORSAL SURFACE FLATTENED -
WITH UPTURNED MARGINS - VENTRAL SURFACE
STRONGLY CONVEX - COLOR REDDISH BROWN -
3.5 - 4 - CM WIDE -
INNER SPATHE LONG & SLENDER - 75 - 80 CM
LONG - 2 - 2.5 CM WIDE BEFORE OPENING -
COVERED WITH A VERY DENSE COATING OF
SCRUFFY - REDDISH BROWN SEALS - SPATHE
OPENING TO 4 - 4.5 - CM WIDE -
PEPUNCHE 30 CM LONG - INCLUDING THE
CLASPING BASE - RED - ROUND - CIRCULAR IN
CROSS SECTION - ^{12MM DIAM.} RACHIS 25 - CM LONG -
ANGULAR - REDDISH - RACHILLAE 30 - 40 CM
LONG - NEARLY TERETE - FLOWERS IN SHALLOW PITS
ON THE RACHILLAE - RACHILLAE PINKISH - WITH

2635- (CONTINUED) A VERY MUCH ENLARGED BASE &

PROMINENT BASAL CALLOS -

RAKHIS - 6-10 mm DIAMETER - RACHILLAE

3-4 mm DIAM - BASES 10 mm BROAD -

FRUITS BLACK AT MATURITY - ^{DEPRESSED} GLOBOSE - 11-12 mm

BROAD & 10 mm HIGH - STIGMATIC POINT NEXT TO

ONE SIDE OF APEX - ABDOMEN DEEPLY

RUMINATE - EMBRYO SMALL - BASAL -

ABOUT 6-8 MATURE LEAVES -

LEAVES WITHOUT CROWNRAFT - PETIOLES

CLASPING FOR ABOUT 15-20 cm - PETIOLE TO

BASE OF FIRST PAIR OF PINNAE - 75-90 cm.

BASE OF PETIOLE 6-7 cm in DIAMETER

(CLASPING THUNK) PETIOLE 2 cm WIDE

AT BASAL PINNAE - BASE OF PETIOLE

STRONGLY CONCAVE DORSALLY & CONVEX

VENTRALLY - BECOMING FLATTERED WITH UPWARD

MARTINS AT BASAL PINNAE - RACHIS OF

LEAF STRONGLY TRIANGULAR IN ~~outline~~

CROSS SECTION - PINNAE 70-80

LONG ACCUMINATE - STABROUS - WITH A

STRONGLY DEVELOPED MID RIB & SEVERAL

MUCH LESS STRONGLY DEVELOPED LATERAL RIBS -

PINNAE COMPLETELY STABROUS -

2635- (continued) BASAL PINNAE 5mm wide - ^{6mm}

& 40-50 cm long - weakly reduplicate
& more or less confluent.

MID PINNAE - 4-5 cm wide & 60-65
cm long - BIFID apex - ^{PINNAE} 1.5-2.5 cm wide
& 20-25 cm long.

RACHIS FROM BASAL PINNAE - 175-190

cm long - MID & APICAL PINNAE

STRONGLY REDUPPLICATE ON THE TRIANGULAR
RACHIS -

2636- *CRYSOPHYLLA* ^{WARSCEWICZII?} - Fan Palm - ABOUT 5 m
TALL - SINATE STEM - TRUNK ARMED WITH
SPINY ROOTS - TRUNK - 4.5-6 cm diameter
LEAF PETIOLES SPLIT AT BASE INTO
"BOOT JACKS" THE SPLIT PORTION BEING
16-20 cm long - PETIOLES CONVEX
DORSALLY FOR A SHORT DISTANCE (ABOUT
15 cm.) ABOVE BOOT JACK & THEN FLATTENED
DORSALLY & CONVEX VENTRALLY TO BASE
OF LEAF BLADE - PETIOLES - 120-160
cm long - FROM BASE OF BOOT JACK (TRUNK)
TO BASE OF LEAF BLADE (KNOBLE)

Leaves silvery beneath - Fan divided
into 4-6 narrow shaped segments -
Basal segments nearly at right angles
to the petiole - Inflorescences
interfoliarious - Spikes many -
(15 in the specimen seen -

Basal spike 16 cm long 3.5 cm wide
Flattened dorsally & convex ventrally
Covered with a dense white to brownish
gray woolly covering which weathers
away - Mid spikes very broad - 7-9
cm, & 9-10.5 cm long - papery &
covered with the same brownish gray
covering, which is retained only on
the basal portions - Terminal 5-6
spikes - smaller - 6.5 cm long x 4 cm
wide - Rachis 12-15 cm - panicle
25-32 cm - Rachilla branched - white
about 4-4.5 cm long.

Leaf Petioles with abundant fiber at
the base - Hastula almost none
Bifid leaf blades 60 cm long by
90 cm wide -

2637- TERNATA - PROBABLY PINURIA - SEE FORMER
NOTES - UNARMED SLIM TRUNKED PALM -
6M TRUNK - 4 CM IN DIAMETER - RINGED
SPACES - INFRA FOLIAR - LEAVES BIFID -
PINNATE - PINNAE VERY IRREGULARLY
SPACED - & VERY UNEQUAL IN WIDTH -
CROWN OF 8-10 CURRENT LEAVES.

2638- CHAMAEDorea - SLIMMER UNARMED PALM -
7M - TALL - TRUNK - GREEN - RINGED -
3.5 CM IN DIAMETER - CROWN OF
4 MATURE PINNATE LEAVES - WITH 34-40
PINNAE - PINNAE BROAD - 6-8 CM WIDE -
CONFLUENT AT THE BASE -
RACHIS & RACHILLAE SALMON RED - FRUIT'S
GREEN - TURNING BLACK ON MATURITY.

2639 - NEONOMA - slender palm - 4M -

X 2640 - Heliconia - BRACTS RED - Foliage - Brown 2.5M -

VICINITY OF CAMPANA - PROV. OF PANAMA -
30M - 8/10/1941

X 2641 - BIGNONIACE - Liana - Fl. white - (3)

CERRO CAMPANA - TRAIL FROM CAMPANA TO
CHICA' - 600 - 800M - 8/10/1941

X 2642 - MALVACEAE - SHRUB - 1 1/2M - Fl. pink -
UNDERSIDES OF LEAVES DEEP MAROON - (5)

2643 - TERNOSTOMA - SINGLE STEMMED - UPRIGHT palm -
GROWING IN DENSE SHADE ALONG STREAM BANK.
TRUNK - GREEN - RINGED - ABOUT 2" IN DIAMETER -
PLANTS ABOUT 3 METERS TALL - WITH 5-6
MATURE PINNATE LEAVES - SPADICES INTER-
FLOR - 4 MATURE SPADICES BEING PRESENT
BEARING TRANSLUCENT WHITE GREEN FRUITS ON
AN ORANGE RIBBED - FRUITS VERY
IRRITANT TO HANDS ON BEING CRUSHED (3)

2644 - CHAMADOREA - PALM - 2 1/2M - FRUIT BLACK - (2)

X 2645 - SCANDENT SHRUB - 3-4M - Fl. yellow - (3)

X 2646 - SMALL TREE - 4M - FRUIT RED - (4)

2647 - SMALL TREE - Fl. fleshy - white - New leaves
PINK - DEEP PINK - (2)

X 2648 - RUBIACE - TERRESTRIAL HERB - Fl. white - very
COMMON IN BRASSLAND - (2)

- X 2649 - VITACEAE - VINE - FLs. RED - COMMON - (3)
- X 2650 - SHRUB - OR SMALL TREE - 3-4 M - FLs. CREAM - (4)
- X 2651 - SHRUB - 1 M - FLs. PINK - COMMON - (2)
- 2652 - TREE - 12 M - LAURACEAE - (4)
- X 2653 - HABENARIA - GROWING IN OPEN GRASSLAND -
Sepals & petals GREEN - LABELLUM YELLOW (1)
- X 2654 - TREE - 7 M - COMMON (very oily SEEDS OR LEAVES) (4)
- X 2655 - TERRESTRIAL AROID - SPATHE GREEN - (1)
- X 2656 - TREE - 8 M - COMMON ALONG EDGES OF GRASSLAND - (4)
- X 2657 - TREE - 8 M - BRACTS RED - (5)
- X 2658 - FERN - CLIMBING VINE - CLIMBING TO TREES - (1)
- X 2659 - FERN - CLIMBING ON TREES - (1)
- X 2660 - GRASS - GROWING UNDER TREES IN DEEP SHADE - (4)
- 2661 - ARDISIA - SHRUB OR SMALL TREE - 4 M -
FLs. DEEP LAVENDER - (3)
- X 2662 - ANTHURUM - GROWING ON LICHEN COVERED
BOULDERS IN GRASSLAND - EXPOSED TO FULL
SUN - SPATHE & BRACTS FLESH PINK - SPADIX
GREENISH YELLOW - (3)
- X 2663 - SOBRALIA - GROWING ON BOULDERS IN
GRASSLAND - SEPALS & PETALS PALE YELLOW -
LIP PALE YELLOW WITH BASE $\frac{1}{3}$ DEEP
ORANGE YELLOW - (1)

vicinity of SONA, PROV. OF VERAGUAS - 200 M -

8/11/1941

X 2664 - CATASETUM ^{OERSTEDII} ~~MACROCARPUM~~ ? - (single flower) (in alcohol) ①

vicinity of LA MESA - NORTH of EL VALLE
DE ANTON - PROV. OF COCLE - 1000 M - 6/10/1941

X 2665 - LYCASTE - Sepals olive green - Petals white -
labellum white, with reddish markings - ①

Hills south of EL VALLE DE ANTON - PROV. OF
COCLE - 800 M - 8/5/1941 -

X 2666 - LYCASTE - growing with TRICHOPELIS - STENOCHLOA
etc - on species of COCOLOBA - Sepals - pale
translucent green - heavily spotted red-bronze
Petals. cream - spotted red - labellum pale
yellow - FRAGRANT - (Honey-scented) ①

X 2667 - CAMARIDIUM LATIFOLIUM - Flowers white - FRAGRANT ②

vicinity of BELVCO - 30 M - 8/15/1941

X 2668 - CATHARTHA DECKERI - ①

X 2669 - SOBRATIA PANAMENSIS - Sepals & petals
rose purple shading to pale rose purple
on the edges - labellum tubular - apex
ruffled & reflexed - very near MADAGASCAR

(GUTH)

Ridgeway. Sepals & petals much paler
on reverse surfaces - Ovary ^{pale} green -
slightly twisted & bent -
Sepals - 2 - 2.25 cm wide - 6.5 cm.
long - Petals - 2.5 cm wide - 4.5 - 5 -
cm long - Labellum - 5.5 - 6 cm long -
& about 3 cm wide at reflexed apex -
Apex with a conspicuous white median
line - Very fragrant - (single flowers)
(in alcohol)

Rio Mata Ahorado - vicinity of El Valle
de Anton - Elevation 400m - 8/12/1941
2670 - SOBRALIA - (Found on volcanic ash bank mixed
with S. leucoxantha) Sepals & petals -
ROSE PURPLE shading to pale rose purple
on tips & edges - Labellum tubular
ROSE PURPLE shading back to pale rose
purple Apex of labellum reflexed
reflexed - Reflexed lobes - ROSE PURPLE
Apex with a conspicuous white median
line - Labellum - colored - VINACEOUS -
RUFEOUS to FERRUGINOUS inside the entire
throat - Sepals - 2.5 - 2.75 cm. wide
8.5 cm long - Petals - 3 cm wide

PETALS - 6 - 6.25 cm LONG - LABEL FROM
7.5 - 8 - cm LONG - & 4 cm WIDE AT
THE ROTTED APEX - SLIGHTLY FRAGRANT
WITH THE SAME FRAGRANCE AS S.

PANAMENSIS - PLANTS BRANCH FROM UPPER
NODES IN SAME MANNER AS S. PANAMENSIS

VICINITY OF MADON DAM - 80M - 8/1/1941

X 2671 - TREE - 10M - FLG. ORANGE - (2)

ANCON HILL, C.R. ABOUT 100M - 8/18/1941

X 2672 - *Chrysophyllum cainito* - TREE - 25M -
FLOWERS GREENISH YELLOW - FRAGRANT - (3)

AZOTE CABALLO ROAD - VICINITY OF MADDER
DAM - ELEVATION ABOUT 100M - 8/17/1941

- 2673 - FERN - TERRESTRIAL - 3 SETS
2674 - Vesneria - TERRESTRIAL HERB - FL. ORANGE - (5)
X 2675 - Melastomae - TERRESTRIAL HERB - FL. pale pink (3)
2676 - FERN - TERRESTRIAL - (3)

Cerro Campana - TRAIL FROM Campana to
Chica - 600 - 800M - 8/24/41

- X 2677 - ORCHID - TERRESTRIAL - ON HIGH WINDSWEEP
GRASSY RIDGES - Sepals & Petals GREEN - INFLOR
GREENISH BROWN - (2)
X 2678 - SHRUB OR SMALL TREE - MELASTOMACEAE -
3M - FL. WHITE - FRAGRANT - (ALSO SOUTH, EL VALLE) (3)
2679 - FERN - ON MOIST ROCKS NEAR WATERFALL - (3)
X 2680 - ARALIACEAE - TREE - 10-12M - FL. GREEN - (6)
X 2681 - WOODY Liana - FL. WHITE - (5)

DRY HILLS SOUTH OF EL VALLE DE NARANJO -
ABOUT 600M - 8/26/41

- 2682 - TREE FERN - GROWING IN ROCKY HILLS
AND ALONG STREAM BEDS - TRUNKS 1-4M
TALL - (TYPE MOVED INTO ORCHID HOUSE) (2)

vicinity of Remedios - Province of Chiriqui
100M - 8/28/41

2683 - Tree Fern - Common Along Roadsides - Trunks
1-3M tall - (Type moved to Barro Colorado Island) (2)

En Valle de Anton - Prov. of Coclé - 650M - 8/30/41

Cycnoches unknown - See Orchids of Panama -

X 2684 - Cycnoches - Flowered in the collection of Mr.
Harry Dunn - Ancón C'Z. Collected at the
above locality - Pistillate fls. Sepals - petals
& column green - Labellum pure white -
Staminate fls. Sepals - petals & column
greenish tan - Spotted maroon - Labellum
pure white - (1)

X 2685 - Orellia - apykytia - Sepals & petals greenish
yellow - Spotted maroon - Labellum pale
yellow - with minute red spots. Flowered
in the collection of Mr. A. G. B. Fairchild
San Francisco de la Cañeta - Panama -

Hills NORTH of El Valle de Arzoo - TRAIL to
LA MESA - 1000M - 8/31/41

- X2686 - SOBRALIA - epiphytic - fls. white - labellum
pale yellow - (1)
- X2687 - LEGUME (MIMOSACEAE) TREE - 15M - fls. white - FRAGRANT (3)
- X2688 - COMPOSITE - Liana - growing in trees - 10-15M tall -
fls. dirty white - FRAGRANT - (4)
- X2689 - TREE - 15M - FRUITS - WOODY - BROWN - (2)
- X2690 - Small tree - 4M - common - Fruit ROSEAT - (2)
- 2691 - GESNERIACE - Epiphytic - much branched
SHRUB - or woody HERB - 1M - fls. white -
interior of corolla tube pale pink - (4)
- X2692 ^{HELECONITIS} RENEALMIA? 3M tall - in clumps - INFLORESCENCE
terminal - BRACTS LONG - BRILLIANT ORANGE -
FLOWERS pure white - VERY SHOWY (3)
- 2693 - HYDROCOEA - Epiphytic woody SHRUB - 3M - tall -
sterile fls. white - with a red "eye" - Fertile
Flowers - MAROON - (4)
- X2694 Epiphytic AEROID - SPATHE BLACK PURPLE -
SPADIX BLACK PURPLE - (1)
- 2695 - BACTRIS - 2M - Fruit ORANGE SCARLET -
SAME AS - #2567 (2)



- 2696 - BESNERIA - TERRESTRIAL - UNDER SURFACES
OF LEAVES & STEMS ^{REDDISH} PURPLE - CALYX DEEP REDDISH
PURPLE - COROLLA CREAM YELLOW - (1)
(GROWING IN BOY AMONG SPINY PALMS ETC.)
- X2697 - EPiphytic AEROID - SPATHE WHITE - FROTTING
SPADIX BRIGHT RED - (1)
- 2698 - ^{ALBIDA?} CRYCOPHILA - Sinate trunked spiny palm -
TRUNK ABOUT 4" IN DIAMETER - PLANTS
ABOUT 3-4 M TALL - BEARING 5-6 NARROW
FAN LEAVES - UNDERSIDES OF LEAVES SILVER (1)
- X2699 - RUBIAC - SMALL TREE - 3M - FLs. WHITE - (5)
- REGION NORTH OF EL VALLE DE TOTOR - TRAIL
TO LAS TONINAS - 9/1/41 1000M -
- X2700 SCHEFFLERA - EPiphytic SHRUB - 3M - FROITS
PINK - (2)
- X2701 PLEUROTHALLIS - EPiphytic - FLs. VAN. (3)
- X2702 MELASTOMACE - SMALL TREE - 5M - FLs. WHITE. (4)
- X2703 - APOCYNACE - TREE - 8-10 M - FLs. WHITE - (6)

X 2704 - UTRICULARIA - Epiphytic - Flowers Sky Blue -
with broad below yellow band down center
of labellum. (1)

X 2705 - Xylobium - Buds Cream yellow - epiphytic (1)

X 2706 - Epiphyllum - Fls. Green - (2)

X 2707 - Heliconia - Inflorescence - pendant - woody
Red - Fls. yellow - 3M - (1)

X 2708 - Heliconia - Inflorescences - erect - Bracts ^{DIAL} ^{CRANE}
edged narrowly with green - 2 1/2 M - (1)

X 2709 - Centropogon - Scandent shrub - 1 1/2 M - 2 M -
milky juice - Fls. Rose pink - Common along
trails - (4)

X 2710 - Woody Liana - Fls. white - (4)

X 2711 - ACANTHACE - SUB-SHRUB - 1 M - Fls. ORANGE
SCARLET - VERY SHOWY (3)

2712 - UREA - SHRUB OR SMALL TREE - 3 M -
FRUITS CLUSTERED ALONG TRUNKS & BRANCHES -
BRIGHT ORANGE - VERY SHOWY ^{Common along} trails. (3)

Floor of El Valle de Anzon - 600m -
9/1/41

X 2713 - Allamandias - Tree - 8-20m - Fruits

Pink to Red - Trees very common from (23)
"Villa Francia" to upper valley of Rio Anzon.

2714 - Erythrina - Spreading thorny tree - 8-10m -

Fls. Scarlet - Seed pods dull Red -

Common throughout the Valle region - (3)

Region North of El Valle de Anzon

Trail to Las Minas - 1000m - 9/1/41

X 2715 - Epiphytic Aeroid - Spathe green -
Spathe brown - (1)

X 2716 - Small spreading tree - 5-6m - Outer

portion of fruit Red - inner orange - (5)

X 2717 - Epiphytic Gesneriad - Many crowned

fleshy greyish white rootstock - Calyx

reddish brown - Corolla - white - striped

reddish brown inside & out. Corolla lobes

white - (Found on climbing ferns &

lower tree trunks.) (3)

2718

X 2718 - CRYPTOPHORANTHUS - epiphytic - lower surface
of many of the leaves deep purple - flowers
heavily striped purple - (6)

2719

X 2719 - ORCHID - epiphytic - Sepals & petals
pale white - Labellum pale white - with thin
brilliant red margin - Anthers cap brilliant
red - (6)

Region north of El Valle de Arzon - trail to
La MESA - 1000m - 8/31/41

2720 - Hexopetion - Palm - same as #2535 (1)

X 2721 - ERICACEAE - CAUCASIDISIA? - epiphytic shrub -
1 1/2 m - much branched - bracts pink - fls.
lavender - (11)

X 2722 - BERONIA - epiphytic - fls. pink - (1)

X 2723 - SCHEFFLERA epiphytica - epiphytic shrub
1 1/2 m - fls. maroon - (2)

X 2724 - CYCLANTHUS - bracts bronze - fls. white -
1 1/4 m - (1)

X 2725 - AEROID - epiphytic - spathe green -
spadix - green - (3)

- 2726 - DESMODIACEAE - TOPPED EPIPHYTE HERB. ①
- X 2727 - HAMELIA - SHRUB - 2-3M - FLOWERS SOLAR YELLOW - ⑦
- 2728 - PEPEROMIA - ~~TERRESTRIAL~~ EPIPHYTE - RACHIS + SPIKE REDDISH BROWN - LEAVES DARK GREEN - UNDER SURFACES REDDISH BROWN - ①
- X 2729 - COMMALINACEAE - SCANDENT HERB - TO 1 1/2 M - FLS. BLUE - ③
- X 2730 - COMMON HERB ALONG TRAILS IN LA MESA CHARRAL & SECOND GROWTH SECTION - 1M - FLS. PINKISH ORANGE - ③
- X 2731 - ANTHORUM - EPIPHYTE - SPATHA GREEN - SPATHA BROWN - ④

LA MESA - 1000 M - 9/2/1941

- 2732 - ACANTHACEAE - SHRUB - 2M - FLS. BLACK PURPLE - ①
- X 2733 - BRONCHIA - EPIPHYTE (TILANDSIA?) FLS. BLUE. ①
- X 2734 - MARANTHACEAE - 2 1/2 M - FLS. PINK - ③
- X 2735 - MAXILLARIA - SEALS & PETALS - ORANGE SCARLET - LABELLUM YELLOW - ①
- X 2736 - CAUCUNDISHA ROLTHARIOIDES - EPIPHYTE SHRUB - 1M - BRACTS PINK - FLS. GREENISH YELLOW - ②

Trail to LAS MINAS - 1000m - 9/1/41

2737- Heliconia - Bracts LAQUER RED - Tipped Yellow -
Flowers yellow - Bracts NOT Hirsute,
ERECT in flowerance - 1 1/4 m - (3)

2738- Peperomia - Climbing & Creeper plant -
Common on all trailside banks - Stems
densely spotted pink - Very common -
Probably the most characteristic Peperomia
of the North Region - (3)

2739- RUBIACEAE - Epiphytic shrub - Succulent
Fleshy leaves - 1 m - fls. pink - (3)

LA MESA - 1000m - 9/2/41

2740- Euterpe - Single trunk - 3-4" diameter -
3 m to base of leaves - 5-5.5 m to tips
of leaves - Mature palm width - 4
leaves - Inflorescences infrapetal -
4 in number - (in specimen seen) ERECT -
Rachilla spreading - Rachis & rachilla
terete - Neely white - with pinkish
blotches near base axillary. Unhappy.

Rachis
of leaf
LAQUER RED -

- 2741- SOLANUM? - TREE - 5M - Fls. lavender - (5)
- X 2742- MALVACEAE - SUB-SHROB - 1M - Fls. white -
- 2743- Epiphytic SHROB - 1M - Fls. pink - (1)
- (2744- CEREAL - epiphytic - SIMULACRUM (1)
- (2745- Xylobium - epiphytic - Sapals & parals
pale white - Labellum white - with
numerous maroon crests - (1)

Hills South of El Valle de Arzon -
650M - 9/2/41

- 2746- ACHILLEA - Fls. blue - epiphytic on
boulders with Polystichum etc - (1) (1)

Floor of El Valle - 600M - 9/2/41

- X 2747- CHRYSOPLYTHUM - TREE - 15M - (3) (1)
- X 2748- CROTON - TREE - 10-20M - Fls. white
very common throughout Valle
Region - (5) (5)

TRAIL TO LAS MINAS - 1000M - 9/1/41

X2749 - PLEUROTALLIS - epiphytic - Fls. MAROON ^①

X2750 - EPIDENDRUM - epiphytic - Fls. GREEN - ^①

VICINITY OF CHORRERA - PROV. OF PANAMA -
30M - 9/8/41

2751 - SMALL TREE - 3M - Fls. WHITE - ^①

REGION NORTH OF EL VALLE DE ANTON - 12000M ^{12000M} - 100

2752 - BRASSIA - epiphytic - Rachis DOLL RED -

Sepals & petals GREENISH YELLOW - Spotted ^①

Rachis BROWN - Labellum GREENISH WHITE

Flowered in the collection of MR. A. D. B.

Fairchild 8/9/41 - and collected by him

at the above locality - (thin flat bulb
like an onion)

MOUNTAINS OF WESTERN AZUERO PENINSULA -
PROV. OF VERACRUZ - ABOUT 600M -

X 2753 TRICHOPIA - epiphyte - Flowers pure
white - with pale orange lines in the
labellum - (Like a large T. Powellii or
T. turrianaense) Collected by DR. EMET ①
DUNN - & Flowered in the collection of
DR. A. D. B. FAIRCHILD Sept 10, 1941 -

MANROVE SWAMPS - vicinity of Fort KODÉ -
C. Z. ON - 9/13/41

X 2754 - ONCIDIUM - sepals & petals white - heavily
blotched ^{reddish} purple - labellum white - heavily
blotched ^{reddish} purple - ①

BADLANDS SOUTH OF EL VALLE DE ANTON - PROV.
OF COCKE - ELEVATION ABOUT 500M -

2755- SOBRALIA - Flowered in the collection of MRS.
A.M. BOUCKE, OF P.O. MINOR, C.2. & collected
by him at the ABOVE locality. Flowered
9/18/41. FRONTAL SURFACES OF SEPALs &
PETALS DEEP BRONZE - REVERSE SURFACES
MUCH LIGHTER IN COLOR. LABELLUM BROWNISH
PURPLE WITHIN, WITH A WHITISH RUFFED ①
EXPANDED MARGIN - (REFER TO MRS. BOUCKE'S
FORMER SENDIN #18) NOT SOB. PANAMENSIS.

BALBOA TOWNSHIP - C.2. 9/23/41 - 0 M. ELEVATION.

X 2756 - SMALL TREE - VOLUNTEER - MINOR AREA - FL.
WHITE - COMMON - 4A - ①

FLOOR OF EL VALLE DE ANTON, PROV. OF COCKE
600M -

X 2757 - ORCHID - EPYPHYTIC - IN TUTTED COLONIES -
BACKS OF SEPALs PINK - FRONTS OF S. & P. &
LABELLUM GREEN - Flowered in BALBOA 9/25/41 ①

Manos de CHORRERA - Prov. de Panama - 9/21/41
20M. elevation - collected by MR. HARRY
DUNN, of ANCON, C.Z.

X 2758 - CHEISTES - TERRESTRIAL -

①

Vicinity of LA MESA - Hills north of El Valle
de Anton - Elevation 1000m - 10/10/41

X 2759 - STANNONIA - MONSIEUR-LIKE BULBS - LEAVES & ROOTS
BACKS of SEPALs COVERED WITH MINUTE
RED HAIRS - Sepals & petals pale yellow
PETALS BARRED RED - Column Apple GREEN
WITH yellow ANTHOR CAP. LABELLUM yellow ①

El Valle DE ANTON - 800 M - 11/4/41

X 2760 - CYCNOCHES - Flowering in the collection
of MR. WALTER ROEBER - OF BALBOA HILLS
C.Z. & collected by him at the ABOVE
locality - Flowers opening pure white
turning GREENISH - ①

Region NORTH OF El Valle - Vicinity OF LA MESA -

1000 M - 11/5/41

Orchid

- X2761- Flowered in Balboa orchid garden - Sepals & Petals
tan - Lip white - Epiphytic ①

Region NORTH OF El Valle - 1000 M - 11/5/41

Orchid

- X2762- Flowered in Aneon - C.2. in the collection of
Mr. Harry Dunn - collected by him at the above ①
locality - Fls. greenish brown Monopodial growth!

Floor OF El Valle DE ANTON - 600 M - 11/10/41

Swamp NEAR Falls - & Banks OF Rio ANTON -

- X2763 - Sedge ③

2764 - Salvia - ^{Common throughout valley} woody herb - 2 M tall - Fls. deep blue - ④

- X2765 - Common tree - leucous - growing AT waters
edge - 8-10 M tall - spreading Fls. dirty
pink - Delightfully fragrant - Reminiscent
OF fields OF clover - ④

- X2766 - Blechnum - Banks OF Rio ANTON in rocks & grass

where slides have occurred - Fls. rose pink - ④

- 2767 - Selaginella - ^{steep} ON SHADY BANKS OF Rio ANTON - ⑦

DRY - SOUTH RIM OF EL VALLE DE ANTON
11/13/41 - 600 - 800 M - (HILL ABOVE LEE'S HOUSE)
& ROADSIDES

X 2768 - TALL "RABO DE VENADO" GRASS - IN SCATTERED clumps
2 M TALL - (MOSTLY IN UNGRAZED - AREAS)
& FENCED ENCLOSURES - (6)

X 2769 - SENCIO - ABOUT 1 M TALL - SLENDER - UNBRANCHED
plants - COMMON IN BUSHY AREAS - FL. BRIGHT
ORANGE - (6)

X 2770 - RUSSERIA - TALL BRANCHED HERB - 1-1 1/2 M -
MANY SMALL RED FLOWERS - COMMON TO ROADSIDE
BANKS & BUSHY PLACES - (2)

X 2771 - HABENARIA - GROWING ON MOIST ROADSIDE
BANKS - FL. PURE WHITE - (2)

X 2772 - CASSIA - HERB - 1/4 M - FL. SMALL - 1/4" DIAM -
YELLOW - (1)

X 2773 - LEUCOME - TREE - 10 M - SPREADING - COMMON
ALONG ROADSIDES - FL. WHITE - FRAGRANT - (6)

FLOOR OF EL VALLE - 600 M - 11/11/41

SWAMP NEAR FALLS & BANKS OF RIO ANTON -

X 2774 - TALL ^{SLENDER} SHRUBBY LEUCOME - 2-3 M TALL -

FL. LAVENDER - IN PHOME LIKE INFLORESCENCES
FOLLOWED BY LINKED CHAINS OF ^{BROWN} SEED PODS -
ALONG EDGES OF SWAMP. (6)

2775

X 2775 - LOBELIA - SLENDER HERB - $\frac{3}{4}$ M - TALL -
GROWING AMONG GRASSES & SEDGES IN SWAMP.

FLS. BRIGHT RED -

(6)

2776

X 2776 - BANISTERIOPSIS ARGENTEA - LIANA SCRAMBLING

Near LOW SHORES AT EDGE OF SWAMP. UNDER-

SIDES OF LEAVES SILVERY - FLs. PINK - IN

FEATHERY RACEMES - COMMON BUT VERY

ATTRACTIVE - MISTY PINK & SILVER EFFECT.

(7)

2777

X 2777 - BEGONIA - STems PINK - FLESHY - UPPER

SURFACES OF ROUNDED LEAVES GREEN - UNDER-

SIDES PINKISH - FLs. PINK - HERB 1 FT.

GROWING IN SHADED EDGES OF SWAMP.

(1)

2778

X 2778 - CHUSIA - ROUNDED SHrub SET AS CHANGES IN

SWAMP. OR ON MARCHES - 3-4 M TALL -

LEAVES - SMALL - ROUNDED - LEATHERY - FLs.

ALMOST ROUND - A VERY DELICATE SLIGHT PINK -

FLs. ABOUT THE SIZE OF A QUARTER -

(5)

2779

X 2779 - Spiny HERB - $\frac{1}{2}$ M - GROWING IN SWAMP.

FLs. DEEP BLUE -

(7)

2780

X 2780 - TALL GRASS - $\frac{1}{2}$ M - GROWING IN SWAMP -

(1)

REGION NORTH OF EL VALLE - 11/12/41 VICINITY OF
LA MESA - 1000 M -

- X 2781 - Bromeliad - epiphytic - leaves with broad
alternating bands of green & purple.
Inflorescence erect in club like heads -
bracts sheathing rod like peduncle red -
calyx's reddish orange - cartridge like -
set at many angles - all having a
varnished look - (4) (4)
- X 2782 - Bromeliad - epiphytic - (1) (1)
- X 2783 - Slender tree fern in heavy forest - trunk
about 3" in diameter - 3 m tall - (2) (2)
- X 2784 - tree - 20 m - fruit orange (like durian) (1) (1)
stands at base of leaves,
- X 2785 - Orchid - epiphytic - fls. tan - (1) (1)
- X 2786 - Bromeliad - epiphytic - leaves striped purple
& green - (narrow parallel stripes) inflorescences
slender - bracts bright red - ~~calyx's yellow~~
with narrow pale green stripes - corollas
long - exserted yellow corolla lobes tinted pale
green - common & showy - (9) (9)
- X 2787 - Cavendishia laulthaeoides (1) (1)

- X 2788- *MELASTOMACEAE* - TREE - 20m - Fls. ROSE
 purple - borne on short spurs -
 (like tiny *Lacynthid* fls. STAMENS BROWN
 Fls. EXCEPTIONALLY BEAUTIFUL - IDENTIFY FLs.
 without leaves.) (5)
- 2789- *Sobralia Allenii?* - EPYPHYTIC - in clumps -
 tops of tall trees - Sep. pale yellow
 labellum pale yellow - FRINGED AT apex.
 with BRIGHT yellowish brown crested
 lines in throat. (1)
- 2790- SHRUB - ACANTHACE - 2m - common & very
 showy - Fls. BRIGHT RED - (3)
- X 2791- *Chroomoron epiphyticum* - EPYPHYTIC
 SHRUB - 1m - Fls. LAVENDER - (1)
- X 2792- *Columna* - EPYPHYTIC - Fls. ROSE
 RED - (2)
- X 2793- *Bromeliad* - leaves TUFTED - heavily striped
 with alternating narrow green & purple
 lines - in flower spike stout - short - not
 or scarcely equalling the leaves in
 length - BRACTS SCARLET - Fls. BRIGHT
 yellow - (1)

2794- BESNERIA - epiphytic - on lower tree
trunks & logs - in dark - damp forest.
Corolla dark flesh pink - or pinkish
Brown. (4)

X 2795- COLONEA ARBUTA - Corolla bright red -
with golden yellow lines marking the
divisions of the corolla lobes - Ep-
iphytic. (1)

Vicinity of Las Uvas - 10M - 11/13/41

X 2796- LORANTHACE - "Hierba de Dios" common
on roadside living fence posts &
trees - making great balls of foliage
red flowers - very showy. (6)

HILLS SOUTH OF EL VALLE - 600 - TO 800 M -
11/13/41

X2797 - ORCHID - epiphytic - BACKS OF S. OP.
WHITE - FRONTS GREY - EDGED PINKISH - Lip ①
WHITE - WITH FRONTAL LOBES DULL ORANGE
FLOWERS TINY - IN A FOXTAIL TERMINAL BRUSH
PLANT ABOUT 10" tall -

X2798 - RUBIACE - TREE - FL. WHITE - TURNING
BROWN WITH AGE - DELICIOUSLY FRAGRANT
LEAVES WIDE & LEATHERY - TREE 6 M -
GROWING ON BUNKER BELOW LEE'S HOUSE
SEEMS ALWAYS TO BE MORE OR LESS
A STRANGLER OR EPIPHYTIC TYPE - AT
LEAST AT FIRST - ④

X2799 - CORATELLA AMERICANA - LOW SCRUBBY
TREES - COMMON ON DRYEST LANDS - ①
3 - 4 M -

X2800 - BENTIANACE - FL. PALE GREEN - ROADSIDE
BANKS - ②

REGION NORTH OF EL VALLE - VICINITY OF
LA MESA - 1000m - 11/12/41

- X 2801 - TREE - 20 m - FRUITS LIKE SMALL
PEARS - BROWN - LEATHERY - BROAD LEATHERY
LEAVES - (4)
- X 2802 - Bromeliad - epiphytic - leaves with narrow
ALTERNATING GREEN & PURPLE STRIPES -
BRACTS BROAD - BRINNT ^{WITH CENTRAL} ^{DARK GREEN} ^{SPUR} ~~RED~~
WITH 3 OR 5 BRINNT YELLOW FLs.
CONTAINED IN EACH BRACT - VERY
SHOWY - (2)
- X 2803 - Bromeliad - epiphytic - UPPER SURFACE
OF LEAVES DEEP GREEN - LOWER SURFACE
DEEP BRONZE - BRACTS BRINNT RED -
FLs. BRINNT YELLOW - VERY LARGE -
IN FLORESCENCE VERY SHORT - $\frac{1}{3}$ THE
LENGTH OF THE LEAVES - FLs. FEW -
BOT COMPARATIVELY LARGE & SHOWY - (1)
- X 2804 - Apocynaceae - SMALL TREE - 2-3m - FLs. WITH
VERY STRONG REFLEXED PETALS - COROLLA TUBE
WHITE - COROLLA LOBES PATE YELLOW - (2)
FRUITS YELLOW - LEAVES LIKE *Podocarpus*

SOUTH - HILLS OF EL VALLE - 600 - 800m -

11/13/41

- X 2805 - TUFTED GRASS - GROWING ON ROCKY HILL
TOPS - (5)
- X 2806 - TINY TUFTED GRASS - GROWING IN CRACKS
ON LICHEN COVERED Boulders - (4)
- X 2807 - GRASS - GROWING IN POCKETS ON THE
ROCKS - (6)
- X 2808 - Evolvulus - (BLUE eye) LARGE BLUE FL.
GROWING ON ROCKY HILL TOPS - (1)
SPRAWLING HERB -
- X 2809 - BIDENS - YELLOW FL. REDISH BROWN
LEAVES & STEMS - HAS STRONG CITRONELLA
ODOR WHEN CRUSHED - (5)
- X 2810 - LOW GROWING MATTED HERB - FL.
PINKISH LAVENDER - (PAPILIO) ROCKY
HILL TOPS & ROADSIDE BANKS - (6)
- X 2811 - SEDGE - GROWING ON ROCKY HILL
TOPS - (3)
- X 2812 - GRASS - PLUME LIKE INFLORESCENCES
ON STEEP SHADED SIDE OF HILLS -
PROBABLY REPRESENTS RESIDUAL BITS
OF ORIGINAL FLORA SAVED FROM
RAVAGES OF CATTLE - (7)

X 2813 - Composite - SHRUB - 1M - Fls. yellow
DURING THE HEAT OF THE DAY PERFORMS
THE AIR OF THE HILL TOPS WITH AN
ODOR LIKE WARM HONEY - (6)

FLOOR OF EL valle - 600M - 11/11/41
SWAMPS NEAR FALLS & BANKS OF RIO ANTON -

X 2814 - THELASTOMAC - SHRUB - 1-1 1/2 M - MUCH
BRANCHED - Flowers ROYAL purple - Borne
IN PROFUSION DURING NOV-DEC & WELL INTO
THE DRY SEASON - A VERY SHOWY PLANT. (6)

X 2815 - LUSSEA - SHRUB - MUCH BRANCHED - 2M -
Fls. yellow - ON EDGES OF SWAMP. (6)

DRY HILLS SOUTH OF EL VALLE - 600 - 800
M - 11/13/41

X 2816 - WOODY HERB - Fls. WHITE - Common - (6)

X 2817 - MIMOSA - Fls. PINK - GRAZED TO 6"
NORMALLY MUCH TALLER - COMMON THROUGHOUT
THE DRY PACIFIC LOWLANDS OF PANAMA -
FORMING ALMOST PURE STANDS IN SOME LOCALITIES

2817- (cont.) BEAUTIFUL IN FIELDS & ALONG ROADSIDES
NEAR BEDURO in ^{Aug.} SEPT - OCT. (3)

X2818- RAVENH - BRANCHED HERB - FL. BLUE -
COMMON TO BRUSHY - WEEDY PLACES - (2)

X2819- COMMON SHRUB - 1 1/2 - 2M. FL. WHITE -
LEAVES SILVER ON LOWER SURFACES.
GIVING THE PLANTS A GREYISH LOOK
FROM A DISTANCE - THESE SHRUBS MAKE
UP ABOUT 20% OF THE SCRUB ON
OUT OVER - BRUSHY LAND - (6)

X2820- BELAWINCHA - ON SHADED SURFACES LIKE
ROCKY BOUTERS ABOVE LEE'S HOUSE -
ETC - ROLL INTO A BALL DURING THE
DRY SEASON - STERILE. (2)

X2821- SEED - COMMON TO ROCKY HILL TOPS
& ROADSIDES. (6)

X2822- GRASS - COMMON TO ROCKY HILL TOPS
& ROADSIDES - (2)

X2823 - GRASS - COMMON TO DRY LOCATIONS &
ROADSIDE BANKS - (1)

2824 - GRASS - THE COMMON CREEPING CARPET
GRASS OF THE ENTIRE REGION - MAKING
UP 80% OF THE SWARD ON THE LOWER &
BETTER PATCHES OF LAND - MUCH GRASS
BY CATTLE - (3)

X 2825 - RUBIACE - SMALL HERB - COMMON TO DRY
BANKS & RIDGES - FL. WHITE - (4)

X 2826 - GRASS - COMMON TO PROTECTED CORNERS
OF DRY RIDGES - (6)

REGION NORTH OF EL VALLE DE ANTON-
VICINITY OF LA MESA - 1000M - 11/12/41

X 2827 - ORCHID - EPiphytic - FL. GREEN - (1)

X 2828 - EPIDENDRUM - EPiphytic - S & P. TH -
BLUSHED MAROON - LIP WHITE - WITH FEW
MAROON SPOTS ON PLANTAL LOBE (1)

2829 - ORCHID - EPiphytic - FL. DARK REDDISH
BROWN - COMMON

²⁸³⁰
X 2830 - BRASSICA? PLANTS ALMOST IMPOSSIBLE TO
DISTINGUISH FROM HUNTLEYA IN A STERILE
CONDITION & GROWING MIXED WITH THEM.
SEALS & PETALS CHESTNUT BROWN - 15
(Continued) 17

X2830 - Lip yellow - very common in
higher elevations of DARK WET
FOREST. (1)

2831 - BIGNONIACEAE - WOODY LIANA GROWING
INTO THE TOPS OF THE TALLEST TREES -
Fls. yellow (3) (3)

X2832 - FICUS - HUGE TREES - 30M - VERY
THICK LEATHERY LEAVES - (6) (6)

2833 - LYCOPODIUM - EPiphytic - (1) (1)

X2834 - ERICACEAE - EPiphytic SHRUB - 1M
BRACTS ROSE PINK - Fls. yellow (1) (1)

X2835 - GIANT THORNY - WOODY LIANA - CLIMBING
INTO THE TOPS OF THE LARGEST TREES -
Fls. - GREENISH TAN - (4) (4)

X2836 - ORCHID - EPiphytic - Fls. GREENISH
TAN - (1) (1)

X2837 - MELASTOMACEAE - EPiphytic - MUCH BRANCHED
SHRUB - 1M - Fls. pale pink - (1) (1)

2838 - UTRICULARIA - EPiphytic - Fls. Purple -
PLANT & LEAVES TINY - FLOWERS
ABOUT 1/4" IN DIAMETER - (PICKLE) (1)

RAVINES IN
HILLS SOUTH OF EL VALLE DE TOTOR - PROV. OF
COTAC - 600M - 11/18/41

X2839 - SOBRIA - STEMS 5 FEET TALL - SLENDER -

3.5 MM DIAM. SPARSELY COVERED WITH SHORT
BLACK HAIRS. LEAVES - 6.5 - 7 CM WIDE -

17 - 20 CM LONG - STRONGLY Plicate. RIBS OF
Plications WITH SPARSE COVERING OF MINUTE

BLACK HAIRS, LEAVES WITH CLASPING BASES

3.5 - 4 CM LONG - LEAVES LONG ACUMINATE.

STEMS TERMINATING IN TWO LONG ACUMINATE


CLOSELY APPRESSED BROWN PAPERY SPATHES -


ENCLOSED BY TWO OUTER SPATHES EACH WITH
TERMINAL FOLICULAR APPENDAGES -

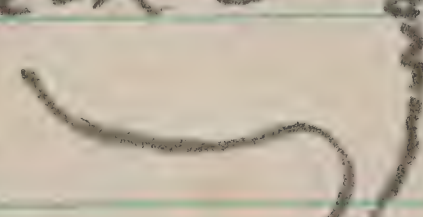
SAPALS & PETALS VELVETY MILK WHITE,

LIP VELVETY MILK WHITE, TUBULAR - WITH THE

UPPER MARGINS CLOSELY APPRESSED ABOVE THE

COLUMN FORMING A SHARP DORSAL CREST 

LABELLUM DISTINCTLY 2 LOBED - THE LOBES 

FLARING, MORE OR LESS FIMBRATE ON THE
MARGINS -  BASAL PORTION AT DIVISION

LINES OF LOBES STRONGLY RECURVED -

SAPALS 2.5 - 2.75 CM WIDE. 8 - 8.5 CM

LONG - ACUMINATE - TIPS, RECURVED -

2839 - (CONTINUED) Petals - 4 - 4.25 cm. wide -

7 - 7.5 cm. long - WITH WAVED & INROLLED
MARGINS + RECURVED TIPS - Flower over
ATH FRONT VIEW 16 cm wide - X 12.5 cm
HIGH. Flower over ATH - Side view (Apex
of Labellum to point of attachment of Petals & Sepals
to ovary) 7 cm long + 12 $\frac{1}{2}$ cm. High.

Labellum 2.25 cm wide where convolute
about column - flaring to 4.5 cm wide
at apex. Labellum with 5 distinct raised
lines running the length of the throat.

Apex with a narrow (.5 - 1 cm) fin oriented
white margin - followed by two primrose
yellow ridge way areas on either side of
the median line - joining about 1.5 in -
forming primrose yellow ridge way +
shading to ochraceous buff ridge way
in the back of the throat.

Ovary slightly bent - 4.5 - 5 cm long
pale greenish yellow - NO FRAGRANCE.

Sepals - 9 petals with distinct dorsal
keels \checkmark + lip with less distinct ventral
keel or more properly well marked

2839 - Median Division Live -

(1)

(THIS IS OUR BEST TYPE)

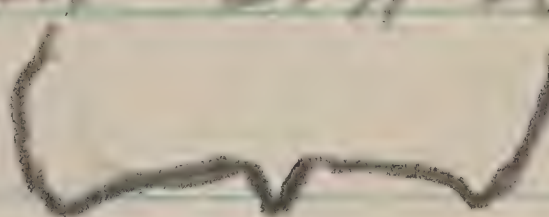
2840

X2840 - SOBRAFIA - STems 5' HIGH - 3.5 mm

DIAM. LEAVES STRONGLY plicate - STems WITH
PURPLISH SPOTS & MARKINGS.

S + P. milky velvety white - lip AS IN
ABOVE WITH CREST FORMED BY APPRESSED

DOESAL MARKINGS ABOVE COLUMN. 2-CM DIAM.
ABOUT COLUMN. MARINE WCH LESS - (3.5) CM.

WIDE - APEX NOT RECURVED AT MEDIAN LINE -
HAS APPEARANCE OF HAVING BEEN BITTEN OFF
SQUARES - WITH MEDIAN TOOTH 

APEX WITH 3-5 mm WHITE MARGIN AT SIDES -
NOT BOTTOM WITH TWO yellow ochre RIDGELINE
AREAS ON EITHER SIDE OF approximate WHITE
MEDIAN BAND ending in WHITE TOOTH AT APEX.
INNER THROAT PURE WHITE.

Rio

Llano Sucre - vicinity of Puerto Pilon -

Elevation ABOUT 100M - PROV. OF COLOMBIA -

11/15/41

- X 2841 - ~~STAMEN~~? - Sepals pale lemon yellow -
Petals orange - lip orange - with reddish
purple spots - column green - wings of
column orange - Flower about $1\frac{1}{4}$ " in
diameter. - Flowered in the collection
of MRS. H. P. BUTCHER - SATUR. 11/20/41
collected by him at the above locality. (1)

Vicinity of Chorrera - Prov. of Panama - 20M.

11/20/41 (From the collection of MRS. ELMOR OLSEN)

- X 2842 - *Trichopilia powellii* - DWARF PLANTS -
RHIZOME SHORT .5 - 1 cm LONG. PSEUDOBULBS
Flattened - 1.25 - 1.75 cm wide - 2. - 3.25 cm
long - 3 - 4 mm thick, topped by a single
leaf 2 - 2.75 cm wide - 4.5 - 7.5 cm long.
Flowers always solitary, sepals & petals
^{GREENISH} pale ivory yellow. Sepals & petals very
narrow 3.5 - 5 mm wide, ^{3.5 - 4 cm long} ^{linear} ovary green.
Lip funnel like, pore white on outer
surface - apex distinctly 3 lobed - the apical

LOBE DIVIDED OR CLIFT AT THE MEDIAN LINE
WITH THE MARGINS SOMEWHAT REPOURED.

Labellum 3.5 cm long - 1.75 cm wide at
Apex. INNER THROAT OF flower yellow, with
NUMEROUS PARALLEL ORANGE RED LINES. ①

El Valle de Antón - Prov. of Costa - Elevation
About 600m - 11/22/41

2843 - CHONDROPHYLLA leaf's umbels, Sepals white,
petals white, with lavender median line,
labellum white, with purple STRIPES RADIATING
FROM THE INNER THROAT TOWARD THE APEX. INNER
THROAT WITH A CURIOUS RAISED CREST, BELOW
AND ABOUT THE LENGTH OF THE COLUMN, LIKE
A TERMINAL SECOND LABELLUM, WHICH IS HEAVILY
LINED LAVENDER. OUT ROLLED MARGINS OF
LABELLUM TINTED LAVENDER. Flower HAS
A FAINT ODOOR OF CLOVES IN THE MORNING. ①

vicinity of FORT SHERMAN - C.Z. O.H.

11/21/41

X 2844 - BRASSAVOLA NOBISA - LEAVES 2 CM BROAD
5 MM THICK - 15 CM LONG - PSEUDO-BOLBS
5-5 CM LONG - LABELLUM 5 CM BROAD.
S+P. Pale GREENISH WHITE, ABOUT 5-6 m
WIDE - 7-8 cm LONG. (8)

REGION NORTH OF EL VALLE DE AYON, (vicinity of
FINCA MUÑOZ)
ELEVATION ABOUT 1000 m - 12/2/41

2845 - SOBRAHA - EPHYTIC - TOPS OF LARGEST TREES,
FORMING clumps of 12-15 CANES - CANES
45 cm. - 1 METER tall - TERE - 5-8 mm THICK.
CANES COVERED WITH MINUTE, MORE OR LESS APPRESSED
BROWN HAIRS, & HAVING IRREGULARLY SHAPED BLACK
BUBBLES, PARTICULARLY NEAR THE APEX. LEAVES
BROAD LANCEOLATE, CORIACIOUS, STRONGLY VEINED, COVERED
ON BOTH SURFACES WITH MINUTE BROWN HAIRS.
LEAVES - 5.75 - 6.50 CM WIDE - 12 - 18 CM LONG -
SESSILE ON THE CHASPIN SHEATHS. LEAVES DARK
GREEN IN COLOR - ERECT - ASCENDING ON THE
CANES -

Flowers solitary - Sepals linear lanceolate - 7 cm
long x 2 - 2.5 cm wide, waxy citron yellow
on outer surfaces, with inner surfaces naphthalene
yellow. Outer surfaces with a pale greenish
mid-rib. Petals ^{BROAD} linear lanceolate, with undulant
margins - 6 cm long x 3 - 3.25 cm wide, naphthalene
yellow on outer surfaces, & pure white on
inner. Lip more or less cylindric about
column with a pronounced dorsal crest formed
by the appressed margins, measuring 1.25 cm
wide x 2.75 high. Apex much expanded - ruffled
and reflexed, 4 cm wide x 3.5 cm. high. Lip
about 6.5 cm long. Lip pure white, with
inner throat with basal strontian yellow
stripe extending from base of throat & expanding
into two lateral strontian yellow blotches.
Frontal 2.5 cm ^{Ruffled} margin pure white. Flowers
with a strong "Lemon Soap" fragrance. ①

Hills south of El Valle - 600 - 800 m - 12/3/41

- X 2846 - ^{linear lanceolate} BRONZE SODALIA - Sepals 1.25 - 1.50 cm wide -
5.25 - 5.50 cm long - GREENISH ON OUTER SURFACES -
VERY NEAR BRICK RED RIDGEWAY ON INNER SURFACES -
^{linear lanceolate} Petals 1 - 1.25 cm wide - 4.75 cm long, erect
REFLEXED - WASHED BRICK RED - WITH LIGHTER MARGINS
& MUCILLAGINOUS CENTRAL RIB ON OUTER SURFACES -
INNER SURFACES BRICK RED - WITH NARROW (2 mm)
WHITE BORDER. SACCALONG MORE OR LESS TUBULAR
(1 cm wide x 1.5 cm high) FRAGILE SLIGHTLY AT
APEX TO 1.5 - 1.75 cm wide & 1.5 - 1.75 cm high.
LIP ABOUT 4 cm long - LIP BRICK RED - WITH
NARROW (2 mm) VENTRAL WHITE MEDIAN STRIPE ON UNDER
SURFACE & WITH UPPER 8 mm OF APPRESSED MARGINS
NEARLY PURE WHITE - INNER LIP NEARLY A CAJON
RED - WITH UPPER 8 mm OF MARGIN PURE WHITE
APEX OF LIP WITH NARROW MEDIAN NEARLY AUBER
BROWN INDISTINCT STRIPE. COLUMN PURE WHITE.

HILLS NORTH OF EL VALLE DE TAYAC - 12/3/41

X2847- *Sorralia Borelli* - Sepals linear lanceolate -

1.25 - 1.75 cm wide x 6 cm long, GREENISH ^(partially) ~~green~~

ON OUTER SURFACES - WASHED ON MARGINS ^{4 BASE} WITH

Pale Rosolane purple. INNER SURFACES

VERY NEAR TRUE PURPLE. Petals 1.5 cm wide x

6 cm long - ^{BROAD} linear-lanceolate - VERY NEAR

TRUE PURPLE ON OUTER SURFACES - WITH

NEARLY WHITE (3mm) central line. INNER

SURFACES VERY NEAR TRUE PURPLE. Lip

NEARLY TUBULAR, 5 - 5.50 cm long x 1.50 cm

wide x 1.75 - 2.00 cm high, flaring to a

MUCH RUFFLED & REFLEXED apex - 2.50 - 3.00 cm

wide x 3.00 - 3.25 cm high. Lower ^{median} ~~base~~, outer

SURFACE OF lip WHITE, shading to NEAR TRUE

PURPLE ON UPPER MARGINS (1.75 cm). UPPER MARGINS

OF inner lip NEAR PHLOX purple, shading to NEAR

PANSY VIOLET in BASE, widening TOWARD THE apex to

INCLUDE THE ENTIRE FRONTED FRONTAL LIPES.

9 RAISED - crested PRIMULINE yellow lines

RUNNING IN A median line THE LENGTH OF THE

throat. Lines ABOUT 8 mm wide in total AT apex

NARROWING TO 5 mm in inner throat. Column

PURE WHITE. Apex of lip WITH ^{pattern of} ~~flaring~~ PHLOX purple lines.

Hills south of El Valle de Atitlan 600-
800 m - 12/2/41

- 2848 - LAURACEAE - TREE - 10 m - BARKS OF INFLORESCENCE RED - FLOWERS GREENISH YELLOW. (3)
- X 2849 - TREE - 6 m - FL. PATE GREEN - (3)
- X 2850 - COMMON ROADSIDE WOODY HERB. COROLLA TUBES ^{pale} yellow, LOBES WHITE, FLOWERS PENDANT. ROADSIDE BANKS. (3)
- X 2851 - COMPOSITE - TREE - FL. DIRTY WHITE, FRAGRANT. 4 m TALL - COMMON - (3)
- X 2852 - MELASTOMACEAE - SMALL TREE - 2 m - BARKS REDDISH BROWN. FRUITS REDDISH BROWN. FL. WHITE - (3)
- 2853 - VINE - FL. ROSE PINK - (1)
- 2854 - COMPOSITE - SCANDENT SHRUB - 3 - 4 m. FL. YELLOW - COMMON. (4)
- X 2855 - MELASTOMACEAE - ROADSIDE 300 - SHRUB - VERY BUSY - 1 m TALL - FL. VERY PATE PINK. (5)
- X 2856 - SUB-SHRUB - 1 m - FL. YELLOW - COMMON - (7)
- X 2857 - LOW GROWING THISTLE-LIKE PLANT - FLOWERS PURPLE - COMMON - (4)
- X 2858 - NEEDY - SUB-SHRUBBY COMPOSITE - 1 - 1 1/2 m. FL. YELLOW - VERY COMMON - (5)

X 2859 - CONVULVUS - ROADSIDE BANKS - Fls. pinkish
lavender - (4)

X 2860 - MELASTOMACE - COMMON HERB IN ROADSIDE
BANKS - Fls. Pink - (7)

X 2861 - COMPOSITE - SHRUB OR WOODY HERB - 1 - 1 1/2 m
Fls. Dirty white, FRAGRANT, common. (6)

X 2862 - COMPOSITE - TALL WEEDY HERB - 1 m -
Fls. white - common - (4)

2863 - SCANDENT, WOODY SHRUB, CLIMBERING
IN BRUSHY PLACES - (3)

X 2864 - COMPOSITE - TALL SLender WOODY HERB -
1 1/2 - 3 m - Fls. white, common in
BRUSHY PLACES - (5)

X 2865 - VINE - Fls. white, common in BRUSHY PLACES. (4)

2866 - COMPOSITE, SMALL TREE - 3 - 4 m - Fls.
yellow "PERERINA" common & showy.
Fls. yellow, ROADSIDE BANKS - (like
yellow daisy like fls.) (6)

(FINCA MUÑOZ)

HILLS NORTH OF EL VALLE DE SANTO - PROV. OF
COCA - EL, ABOUT 1000M - 12/2/41

- X 2867- *Heliconia magnifica*. INFLORESCENCES
pendant - woolly - RED - fls. yellow. Leaves
3-4M tall - UNDERSIDES OF LEAVES
purplish - ①
- X 2868- ORCHID - S & P, GREEN - WITH REDISH BROWN
CENTER OF FRONTAL LOBE OF
MARTINUS - Lip ORANGE YELLOW - WITH PALE
YELLOW RUFFLED MARGIN. (PICKLE) ⑤
- X 2869- ORCHID - fls. WHITE - (PICKLE) ②
- X 2870- *Maxillaria* - S & P. WHITE ON REVERSE
SURFACES - VERY PALE YELLOW ON FRONTAL
SURFACES - Lip DEEP YELLOW, MARGIN
WHITE ON FRONTAL LOBE (PICKLE) ③
(LUTEO - ALBA - fls. LARGE - SHOWY 3-5 in cluster)
- X 2871- *Maxillaria* - S & P. PINKISH TAN ON OUTER
SURFACES - Yellow on inner. Lip yellow
WITH LOWER SURFACE OF apical lobe
WITH MAROON BLOTCH. ①
- X 2872- ORCHID - TUFTED - fls. GREENISH YELLOW - ③
- X 2873- *Maxillaria* - S & P. Yellow - Lip yellow
WITH MAROON BLOTCH ON UNDER SURFACE OF
Apical LOBE. ③

- X 2874 - ORCHID - Sepals & Petals pale green - (pickle)
 striped deep lavender - lip deep lavender. (2)
- X 2875 - MAXILLARIA - Sepals GREENISH YELLOW - (pickle)
 Petals white - lip clear yellow. (2)
- X 2876 - STATICE - Fls. MAROON - (1)
- X 2877 - MAXILLARIA - Fls. TAN - (tiny plant 1 1/2" tall) (1)
- X 2878 - SINNATO STATICE - Fls. yellow (1)
- X 2879 - ORCHID - Fls. white - Spurs yellow -
 (tips of sepals) (1)
- X 2880 - MYRMECOPTYLLOUS FERN - Bladders fleshy -
 look (see 2899) grey - tinted purple - with conspicuous (pickle)
 grey hairs - in habitat by small
 beehive ants which bite severely. (2)
- X 2881 - GIANT TANK BROMELIAD - the largest species
 occurring in the region - Plants about
 3' tall in flower x 2 1/2' wide - very
 common - Racks of inflorescence lavender
 grey - flowers lavender - tinge pink -
 leaves lavender grey - turning pinkish
 on tips where exposed to sun - leaf
 margins armed with saw teeth. (1)
- 2882 - COLONNATA HIRSUTISSIMA - Fls. rose pink -
 common. (3)

X 2883 - ONCIDIUM CRISTI - Liliaceae - Fls. yellow - (1)

X 2884 - Bromeliad - Epiphytic - BRACTS & PBRACLES

+ Foliage ^{grayish} GREEN - FRUITS SHINING BLACK.

BASE OF FOLIAGE BROWN - (4)

X 2885 - Bromeliad - Epiphytic - Liliaceae - SKENDER

PLANTS - BRACTS RED-TIPPED GREEN - FRUITS

BROWN - (3)

2886 - LIABUM - Epiphytic SHRUB - 2³ M - Fls.

yellow - FRAGRANT - UNDER SIDES OF

LEAVES SILVER - (5)

2887 - TERNATE TERRESTRIAL AEROID - OCCASIONAL ON WET

BANKS & TRAIL BARS ALONG SMALL STREAMS.

PLANTS HAVING A STOUT ^{WOODY} TRUNK - 5-6" in DIAMETER

& 4' TO BASE OF LEAVES, WHICH ARE 3-4 in

NUMBER. ~~LARGEST~~ LEAF COLLECTED 38" (2)

WIDE x 42" LONG - NOT INCLUDING THE

PETIOLE. SPATHES SHORT, STUBBY - RED-BROWN.

3-4 in NUMBER SITUATED IN THE LEAF AXILS.

VICINITY OF BENUCO - PROV. OF PANAMA -

O-M - 12/2/41

- X2888 - COMBRETUM - SCANDENT SHRUB, 3M - FLOWERS
YELLOWISH GREEN - FRUITS REDDISH BROWN.
COMMON & DISTRIBUTED THROUGHOUT THE
LOWLANDS OF THE REPUBLIC. (10)

FLOOR OF EL VALLE DE ANTON - PROV. OF
BOGOTA - 6000M. (NEAR PERUVIAN BORDER) 12/2/41

- X2889 - FICUS - TREE - SPREADING - 15M TALL - (6)

HILLS NORTH OF EL VALLE - (FINCA MUÑOZ) 1000M.
12/2/41

- 2890 - UTRICULARIA - EPIPHYTIC - FLOWERS SOLITARY
OR IN PAIRS - FL. DEEP LAVENDER PURPLE.
Fairly common in tops of HOTTENTOT TREES.
(SAME AS #2838)

- 2891 - STAPHIS - FL. MAROON. (PICKED ON HILL) (1)

- 2892 - PLEUROTHALLIS - FLOWERS REDDISH - MINOR
PLANTS - SOLITARY - (PICKED ON HILL) (1)

VICINITY OF PAORA -
PROV. OF PANAMA - 35 M
11-20-38.

X986-5 ENTIANAS - 172.

K.

(4)

Original holograph field
notes.

986-1328

(See typed copy)

vicinity of PAORA -
Prov. of PANAMA - 35 M
11-20-38

X 986 - BENTIANAE - 1 Fls.

Pink -

(4) (0)

X 987 - MELASTOMAE Fls.

LAVENDER -

(4) (0)

X 988 - MELASTOMAE Fls.

Pink -

(4) (0)

X 989 - LABONAE - SHRUB

2 1/2 M - Fls. pink

(4) (0)

X 990 - LABONAE - SPRAWLING

HERB - Fls. LAVENDER

(4) (0)

X 991 - SEDES -

(4) (0)

X 992 - SEDES -

(4) (0)

x993 - Sapote - (4) (1)

x994 - Gentiane -

Fls. white - (4) (1)

x995 - Lefuue - vine

Fls. vinaceous purple (1) (1)

x996 - Lefuue - vine

Fls. lavender - (1) (1)

x997 - Euphorbia - fls.

green - (1) (1)

x998 - Lefuue - Crataegus?

Fls. yellow - (1) (1)

x999 - Composit - Bignon

Fls. yellow - (1) (1)

X/000 - LECYME - WOODY

HERB - 1M - FLS - PINK (2) (3)

X/001 - HERB - FLS. WHITE (1) (2)

X/002 - WOODY MILKWEEDS

HERB - FLS. Blue - purple 1M (1) (2)

X/003 - LABIAT - HERB

1 1/2M - FLS. WHITE - (4) (5)

X/004 - LABIAT - HERB

1 1/2M - FLS. WHITE - spotted

LAURACEAE

(4) (5)

X/005 - LABIAT - HERB

1 1/2M - FLS. WHITE - (4) (5)

X/006 - TREE - 25M -

COROLLA yellowish GREEN

STAMENS whorled about pistil

X/1007 - ~~distans~~ - cistus

Fls. white. (3) (1)

X/1008 - TREE - 10M -

LABURNUM - Fls. pale yellow - (3) (1)

X/1009 - TREE - 20M -

MELASTOMACEAE - Fls. pink - (4) (1)

X/1010 - TREE - 10M - Fls.

white - (4) (1)

SANTIAGO - Prov. of

VERAGUAS - 5011 - 11-24-38

X/011 - CONVULVUS -

VINE - Fls. SALMON RED. (4) (●)

X/012 - LORANTHACE - Fls.

WHITE - PARASITIC (4) (●)

X/013 - MELASTOMACE - SHRUB

2' H - Fls. PURPLE (4) (●)

X/014 - MELASTOMACE - SHRUB

1' H - Fls. PURPLE - (4) (●)

X/015 - LABIATEAE - HERB

Fls. BLUE - (4) (●)

X/016 - PIPER - TREE - 3' H (4) (●)

X/017 - GRASS (4) (●)

X/O18 - COMPOSIT - BIDSUS P

Fls. yellow - ODOR OF LEMON

oil -

(4) (2)

HILLS west of Santa -

Prov. of VERACRUZ - 500m

11-24-38 -

X/019 - TITILUA - woody

HERB. 1M - Fls. PINK ①②

X/020 - MEKAS TO MAS -

SAME AS 1014 - Fls.

WHITE - SHRUB 1M ①②

X/021 - VITACEAE - VINE

Fls. WHITE - ④⑤

X/022 - APURAC - VINE

Fls. GREEN - COROLLA LOBES

WHITE - ②③

X/023 - RUBIA - WARBOEVI

CZIA - BRACTS SCARLET "

1023 - SMALL TREE 3M (4) (0)

X/1024 - VINE - Fls. (4) (0)

scarlet.

X/1025 - COMPOSIT - SHRUB

2M - Fls. WHITE (4) (0)

X/1026 - HERB - Fls. pale

PINK - (4) (0)

1027 - COMPOSIT - VINE

Fls. WHITE - (4) (0)

X/1028 - CONVULVULACEAE -

VINE - Fls. WHITE (4) (0)

X/1029 - BIGNONIACEAE - LIANA

Fls. LAVENDER - (4) (0)

X/1030 - MALPHIGIACEAE - LIANA

Fls. PINK - 40 (4) (0)

X/031 - MELOSTOMACEAE - (4) (0)

TALL HERB - 1 1/2 M - Fls. pink

X/032 - LENTONEAE - VINE

Fls. pink - (4) (0)

X/033 - LORANTHACEAE - FRUIT

yellow - PARASITIC - (4) (0)

X/034 - BEGONIACEAE - 2 M -

Fls. white - (4) (0)

X/035 - CISSUS - VINE

Fls. Red - (4) (0)

X/036 - BORAGINACEAE - ?

TREE - 20 M - Fls. white (4) (0)

X/037 - LABIATAE - HERB

2 M - Fls. Purple - (4) (0)

X/038 - COMPOSIT - SHRUB

2' L H - Fls. yellow (4) (1)

X/039 - TREE - 5 M - Fls.

white - (4) (1)

X/040 - LEUCONE - TREE

10 M - STAMENS ROSE (4) (1)

X/041 - MALPHIGIACE - SHRUB

1' L H - (4) (1)

X/042 - ACANTHACE - Fls.

ROSE PINK - WOODY HERB

2 M - (3) (1)

X/043 - LEUCONE - SHRUB

1' L H - Fls. yellow (4) (1)

* 1044 - BORACE? SCANDENT

SHRUB ^{3M} - fls. white (4) (1)

* 1045 - Hibiscus - SHRUB

4M. fls. scarlet. (4) (1)

* 1046 - Composit - SHRUB

HARD - 2 1/2 M - fls. white (3) (1)

* 1047 - SEKAKOVELLA - (4) (1)

* 1048 - STENADENIA - LARGE

FRUIT - (1) (1)

* 1049 - LEUCOME - fls.

yellow (4) (1)

* 1050 - RUBIA - HARD

fls. white (2) (1)

* 1051 - SHRUB - 1 1/2 M -

fls. white - 33 (4) (1)

X/052 - LENTUME - HERB

Fls. yellow -

① ②

X/053 - HERB - Fls. white

①

X/054 - LENTUME - Fls. yellow

④

X/055 - ONAGRACEAE - Jussieu?

HERB - 2' H. Fls. pale yellow

③

X/056 - Jussieu - Fls. yellow

Floating

④

X/057 - MALVACE - TALL HERB

2 H - Fls. pale yellow

①

X/058 - LENTUME - CASSIA?

WOODY HERB - 1 M - Fls.

LIGHT ORANGE -

②

X/059 - VINE - LENTUME - Fls.

yellow

26

④

*1060 - LENTONE - WOODY

HERB - 1M - Fls. yellow (4) (0)

*1061 - MIMOSA - HERB 1M -

Fls. Pink - (4) (0)

*1062 - CUCURBIT - VINE

Fls. yellow - (3) (0)

*1063 - VINE - BRNDS

WHITE - (4) (0)

*1064 - SCROPHULARINE?

LIANA - Fls. purple (4) (0)

*1065 - LENTONE - TREE

YM - Fls. GREEN (3) (0)

*1066 - COMPOSIT - HERB

1 1/2 M - Fls. yellow (4) (0)

*1067 - HERB. Fls. Blue

Growing in BOTS (4) (6)

*1068 - GRASS

(4) (6)

*1069 - Gentianaceae - Fls.

Pink -

(4) (6)

*1070 - SCROPH - ? Fls.

Lavender -

(1) (6)

*1071 - MELASTOMACE - Fls.

Lavender -

(1) (6)

*1072 - EUPHORBACEAE - TREE

15M - Fls. pink.

(4) (6)

*1073 - RUBIACEAE - SMALL

TREE - 3M - Fls. white

(1) (6)

*1074 - SOLLAVENELLA

(4) (6)

X 10175 - LENTONE - SPRING

1/2 M - FB. yellow (4) (5)

VICINITY OF SANTIAGO
PROV. OF VERAGUAS - 11-25-
38

X 1076 - LEUCOME - CASSIA?

TREE 10M - Fls. yellow

yellow -

(4) (1)

X 1077 - TREE - 15M - LEUCOME

Fls. pink -

(1) (1)

X 1078 - SCANDENT SHRUB

3M - Fls. white -

(4) (1)

X 1079 - ANACARDIACE "MARAHON"

Along roadsides -

(2) (1)

TREE - 5M -

X 1080 - LEUCOME - THORNY

TREE - 8M - Fls. pale

lavender -

20

(4) (1)

X/081 - Russelia - Herb

2M - Fls. scarlet. (4) (0)

X/082 - Prosopis? shrub

THORNY - 2M - Fls. white (3) (0)

X/083 - CONVOLVULUS -

VINE - Fls. deep lavender (4) (0)

X/084 - WOODY HERB -

1M - Fls. yellow - (4) (0)

3/6

X/085 - CONVOLVULUS!

ARVENSIS? fls. blue - (2) (0)

~~1086~~

vicinity of CHITRE -

Prov. of HERRERA? 2011-11-26-38

X/086 - LEONURUS - TREE - 6M -

Fls. GREEN -

(4) (0)

X/087 - CONVULVULUS - Fls.

BLUE -

(3) (0)

X/088 - HERB - Fls. WHITE

(4) (0)

X/089 - LEONURUS - VINE - Fls.

LAVENDER -

(4) (0)

X/090 - ASCLEPIAD - Fls. WHITE

VINE -

(2) (0)

X/091 - NAHUAL - NOSSYPIDUM?

TREE - 4M - Fls. yellow - (4) (0)

X 1092 - WOODY VINE -

Flowers pale pink - stripes

purple - (4) (5)

1093 - LEANER - WOODY

X HERB - 2M - Fls. yellow - (4) (5)

X 1094 - LABIATAE - SCANDENT

SHRUB - 3M - Fls. pale yellow - (4) (5)

X 1095 - MALVACE - WOODY

HERB - 2M - Fls. yellow - (4) (5)

X 1096 - LEANER TREE -

10M - Fls. yellow - (4) (5)

X 1097 - LEANER - SHRUB

2M - Growing in standing

water - Fls. yellow - (4) (5)

x/1098 - TREE - 10M -

Fls. white - (4) (5)

x/1099 - ACANTHACEAE - HERB

1 1/4 M - Fls. purple (4) (5)

x/1100 - TREE - 5M - Fls. white (5)

BORACEAE? CORDIA? - (4)

x/1101 - ARISTOLOCHIA -

VINE - Fls. lemon yellow (4) (5)

x/1102 - CONVULSIVUS - VINE.

Fls. white (3) (4)

x/1103 - VINE - Fls. pale

yellow - 4 (5)

x/1104 - LENTUME - TALL HERB

2M - Fls. yellow (4) (5)

X 1105 - HERB - 1 1/2 M - Fls.

yellow -

(4) (1)

X 1106 - COMPOSIT - HERB -

2 1/2 M - Fls. - yellow (4) (1)

X 1107 - LABIATAE - TALL HERB

1 1/2 M - ~~Fls.~~ Blue - (4) (1)

X 1108 - LEGUMINAE - VINE

Fls. white - (1) (1)

X 1109 - COMPOSIT - SHRB

3 M - Fls. yellow - (4) (1)

X 1110 - SHRB - 1 M -

Fls. white -

(4) (1)

X 1111 - POLYGONACE - TREE

10 M - Fls. green (4) (1)

* 1112 - Apocrypha - L. 1. 1. 1.

He-yellow - (4) (9)

vicinity of PASORA -
PROV. OF PANAMA - 2011 -
11-30-38 -

X 1113 - BIGNONIACEAE - LIANA

Fls. lavender - (4) (5)

X 1114 - APACIACEAE - TREE

15M - (4) (5)

X 1115 - COMPOSITAE - HERB -

Fls. purple - (4) (5)

X 1116 - LIANA - MALPHIGIACEAE -
MALPHIGIACEAE

FRUIT - ROSE - (4) (5)

X 1117 - VITACEAE - Fls.

WHITE - (4) (5)

X 1118 - MEISTOMACEAE - TREE

2 1/2M - Fls. pink (4) (5)

X1119 - LEAVES - CRESSIPINIA

TREE - 3M - Fl. yellow (2) (3)

X1120 - TREE - 4M - Fl.

WHITE -

(4) (5)

X1121 - ISERTIA - RUBIA.

TREE - 4M - Fl. yellow (4) (5)

X1122 - RUBIA - TREE

25M - BRATS + Fl. white (4) (5)

X1123 - TREE - 3M - FRUIT

yellow -

(4) (5)

X1124 - NATIVITAS - LIANA

(4) (5)

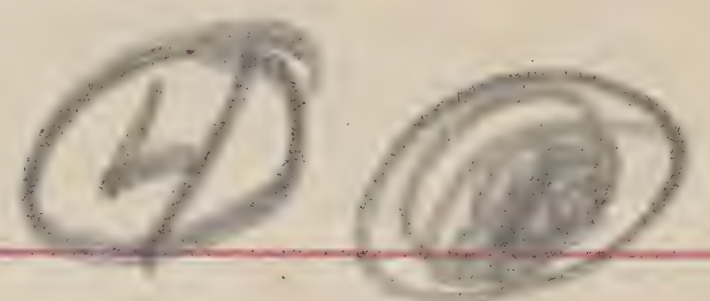
X1125 - LEAVES - TREE - 5M -

Fl. white -

(4) (5)

X/126 - LAUREL - TREE 20M

Fls. WHITE -



VICINITY OF CHORRERA - 30M

12-5-38 - PROV. OF PANAMA.

X/1127 - MALASTOMAS - TREE

12M - FLS. BLUE -

(4) (1)

X/1128 - CONVOLVULAS - VINE

FLS. BRIGHT YELLOW

(4) (1)

X/1129 - MALPHEGIA - FLS. YELLOW

BRIGHT WOODY LIANA CLIMBER

IN TOPS OF TREES 30M -

(4) (1)

VICINITY OF SAN CARLOS -
PROV. OF PANAMA -

0 - TO 10M - 12-5-38 -

X/1130 - LORANTHACE - FLS.

(4) (1)

SCARLET - PARASITIC ON "LOBO".

X/131 - COMPOSIT - HERB

2M - Fls. yellow

(4) (1)

X/132 - WOODY - HERB - LEAVES

1M - Fls. salmon red

(4) (1)

X/133 - LEAVES - TREE - 10M -

Fls. WHITE - Along sea

BEACH -

(4) (1)

X/134 - Hibiscus - TREE

10M - Fls. ORANGE

(4) (1)

X/135 - LEAVES - VINE -

Fls. GREENISH yellow

(4) (1)

X/136 - Physalis - 1M -

Fls. yellow

(4) (1)

X/137 - Apocynum - VINE

(1) (1)

X1138 - woody HERB 1' H

Fls. yellow

(4) (1)

X1139 - LEVINE - SHRUB

1' H - Fls. lavender - (4) (1)

X1140 - SHRUB - 1' H - Fls. -

pink -

(4) (1)

X1141 - LEVINE - vine

COMMON ON SAND BEACHES

Fls. purple - (4) (1)

X1142 - LIANA - FRUIT Deep

BRONZE - MATPHILITE

(4) (1)

X1143 - LEVINE - CREEPING

HERB - Fls. ORANGE

(4) (1)

1144 - LOBELIA^{ELIA} - Fls.

SCARLET

32 (1) (1)

*1145 - HERB COMMON

ALONG STREAM BANKS -

Fls. LAVENDER -

(4) (1)

*1146 - LEBONIE - HERB

1/4 M - Fls. LAVENDER (1) (1)

*1147 - MELASTOMACE - HERB

1 M - Fls. WHITE

(1) (1)

*1148 - GRASS -

(4) (1)

*1149 - ORCHID - BLETTIA

Fls. ROSE PINK -

(4) (1)

FL Valle de Guzman
TO 10000 -
6000' - Prov. of Coahuila -
12-8-38 -

X 1150 - UTRICULARIA - ON
HINTH BARE RIDGES - Fls.

WHITE - (1) (2)

X 1151 - HERB - MINUTE Fls.

WHITE - (1) (2)

X 1152 - MCHASTACEAE - WOODY

HERB - 1' H - Fls. - PINK (2) (1)

X 1153 - POLYGONACEAE - Fls.

Fls. - (1) (2)

X 1154 - LOBELINIACEAE - HERB

1' H - Fls. - RED - (1) (2)

X 1155 - HERB - Fls. white (4) (1)

X 1156 - Rosellia - 21 -

Fls. scarlet (2) (1)

X 1157 - FERN - (1) (1)

X 1158 - Kottlaria - 3 flowers.

scarlet. (4) (1)

X 1159 - SPIRANTHEA - (1) (1)

X 1160 - Papaveria (4) (1)

X 1161 - HABENARIA -

Fls. white - (4) (1)

X 1162 - ^{HIERACEUM} ~~Hieracium~~ - compound.

Fls. lavender - (1) (1)

X 1163 - FERN - (1) (1)

X 1164 - HERB - Fls. pale
PINK (1) (1)

* 1165 - RUBIACE - fls.

white

(4) (1)

* 1166 - FERN - (1) (1)

* 1167 - Bayonet - 1/11

fls. white - (4) (1)

* 1168 - MATURE - VINE -

fls. white - (4) (1)

* 1169 - ~~MASS~~ SEEDS (4) (1)

1170 - CONVULVULACEAE - vine

fls. GREEN - corolla lobes

PURPLE -

(1) (1)

* 1171 - POLYSTACHIA - (1) (1)

* 1172 - LAURACEAE - TREE

4/11 - fls. pale yellow (1) (1)

X 1173 - COMPOSIT - TALL

WOODY HERB - 3M - FLS.

PURTY WHITE - (4) (1)

X 1174 - MELASTOMACEAE - FLS.

PINK - (1) (1)

X 1175 - MELASTOMACEAE - SMALL

TREE - 3M - FLS. WHITE (4) (1)

X 1176 - Hibiscus - SHRUB

3M - FLS. SCARLET - (2) (1)

X 1177 - COMPOSIT - SCANDENT

SHRUB - 3M - FLS. YELLOW (1) (1)

X 1178 - TREE - 12M - FLS.

WHITE - FLACOSTIACEAE (4) (1)

flacostiaceae

X 1179 - LABIATAE - TALL

HERB - 2M - Fls. Blue (4) (1)

X 1180 - LACUNAE - SMALL

TREE - 3M - Fls. yellow (4) (1)

X 1181 - COMPOSIT - WOODY

HERB - 2M - Fls. yellow (4) (1)

X 1182 - SALVIA - WOODY HERB

1 1/2 M - Fls. DARK BLUE (4) (1)

X 1183 - TERRESTRIAL^{NO} ORCHID

Fls GREEN -

(2) (1) (1)

X 1184 - BERONIA - Fls. PINK (1)

X 1185 - PIPER - SMALL TREE

2 1/2 M -

(3) (1)

X/186 - ANTHURION - EGYPTIAN

SPADIX BLACK -

X/187 - RUBIA - SHRUB - 1 1/2 M -

Fls. yellow

(3) (4)

X/188 - PERONIA - EGYPTIAN

Fls. white -

(1) (2)

X/189 - RUBUS - 1 1/2 M -

(3) (4)

X/190 - POTANORPHE - 2 M

(1) (2)

X/191 - TREE - 10 M - Fls.

white -

(3) (4)

X/192 - PIPER - TANT HERB.

3 M -

(4) (5)

X/193 - PIPER - WOOLY HERB

3 M -

(4) (5)

X 1194 - BEADONIA - Epiphytic

Fls. white

(4) (5)

X 1195 - PIPER - TALL Shrub

Herb - 3M -

(3) (4)

1196 - SOBRAFIA - Epiphytic

Fls. Lavender - Lip - Bronze

FRAGRANT - Size & Habit

of LEUCOSANTHA - color

of PANAMENSIS

(1)

X 1197 - FERN - Epiphytic

(4) (5)

X 1198 - COMPOSIT - Herb

2M - Fls. yellow

(4) (5)

X 1199 - SOLANUM - TREE - 3M -

Fls. white

(4) (5)

25

X/200 - BORAGINACEAE

TREE - 10M -

① ②

X/201 - ORCHID - TERRESTRIAL

Fls. pale yellow -

① ②

1202 - Stenandropis -

3M - Fls. pink -

① ②

X/203 - SOLANUM - TREE

10M - Fls. white -

④ ⑤

X/204 - BORAGINACEAE - HERB

Fls. pink -

④ ⑤

X/205 - AMARANTHUS ^{woody} SCANDENT

HERB - CLIMBING IN TREES

4M -

④ ⑤

X/206 - EUPATORIUM - HERB

2M - Fls. pale lavender

④ ⑤

X/207 - BENONIA - Epiphytic

Fls. white -

(4) (5)

X/208 - FERN - Epiphytic

(4) (5)

X/209 - Solanum - Small

TREE - 3M - Fls. lavender.

(4) (5)

X/210 - Tall Herb - 2M -

Fls. white -

(4) (5)

X/211 - TREE - LAURACEAE?

Fls. pale yellow - 15M

(4) (5)

X/212 - Solanum - Woody

LIANA, in tops of large

TREES - Fls. yellow - striped

purple -

(4) (5)

1213 - Centropogon - Herb

1' LN - Fls. Pink

(2) (5)

X/214 - HERB - 1M - 1 1/2.

SCARLET -

(4) (1)

X/215 - ACANTHACE -

(2) (1)

X/216 - COMMALINACEAE - 1M (1)

X/217 - OYCHANTHUS - 1M (1)

X/218 - SALICINELLA - (2) (1)

X/219 - WOODY HERB - 1M

Fls. SCARLET -

(3) (1)

X/220 - ^{TERRESTRIAL} PEPERONIA - (1) (1)

X/221 - PEPERONIA - EPiphytic (1)

X/222 - PEPERONIA - EPiphytic (2) (1)

X/223 - LORANTHACE - Parasitic

SHRUB. Fls. ORANGE (4) (1)

X/224 - VINE WOODY - 1 1/2.

WHITE

30 (1) (1)

TELEGRAPH post #189

WEST of DIVISA

CASSIA - 5 OLDEN yellow

Flowers. EXCELLENT TO

CULTIVATE - TRY FOR

SEED - Forwarded

11-25-38 -

El. v. alt. - 600 - 1000 m. 12/8/58

X/1225 - RUBIACE - TREE

4M - BRACTS. RYLL RED ① ②

X/1226 - ACANTHACE - HERB

1 1/2 M - FLs. RED ③ ④

X/1227 - ANTHURIUM - Epiphyte ① ②

X/1228 - EUPHARIS BOECKII ② ③

X/1229 - PLEUROTHALLIS BOECKII?

FLs. PALE ORANGE ①

X/1230 - HABDEUAKIA - FLs.

MAROON - ① ②

X/1231 - ORCHID - FLs. WHITE

SPURS. Tipped yellow ① ②

X/1232 - ORCHID - FLs. yellow ② ③

X/1233 - ORAKID - Fls.

WHITE -

③①

X/1234 - PLEUROTALLIS -

Fls. MAROON -

①①

X/1235 - SPIRANTHUS - Fls

WHITE - TERRESTRIAL - ①①

X/1236 - PLEUROTALLIS -

Fls. BROWN -

①①

X/1237 - PLEUROTALLIS - Fls

WHITE

①①

X/1238 - PLEUROTALLIS - Fls.

BROWN -

①①

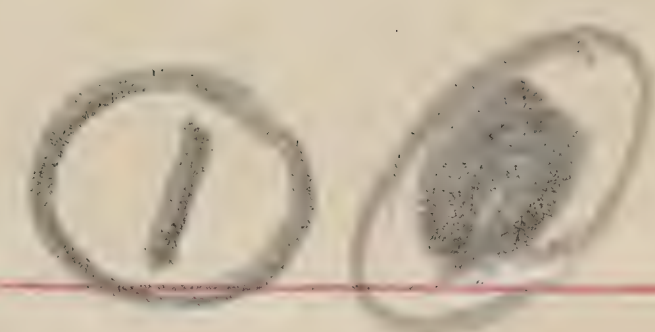
X/1239 - PLEUROTALLIS - Fls.

DARK RED

11 ②①

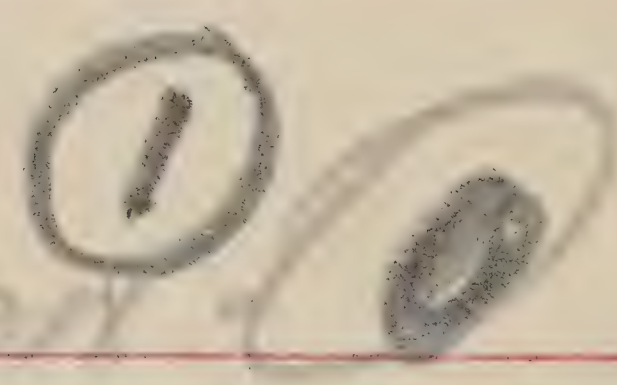
X/240 - Phlox Rothensis -

Fls. Dull Red -



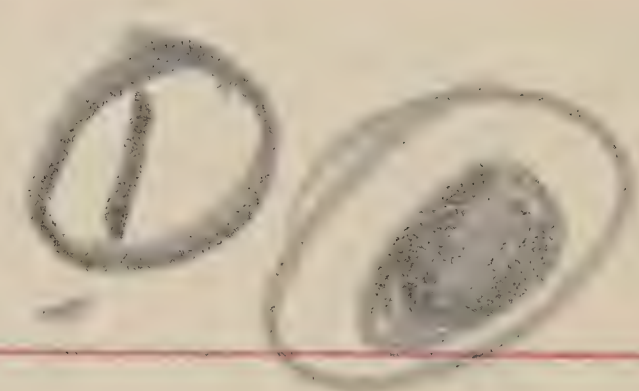
X/241 - Phlox Rothensis -

Fls. yellow - lip MAROON



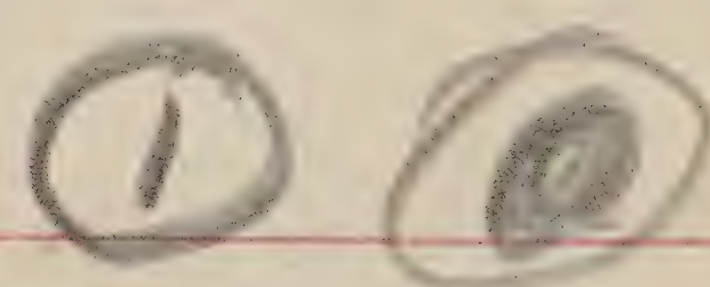
X/242 - Phlox Rothensis -

Fls. STRIPED pink



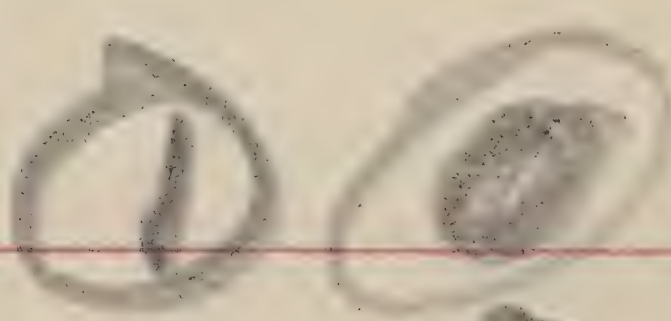
X/243 - Phlox Rothensis -

Fls. MAROON -

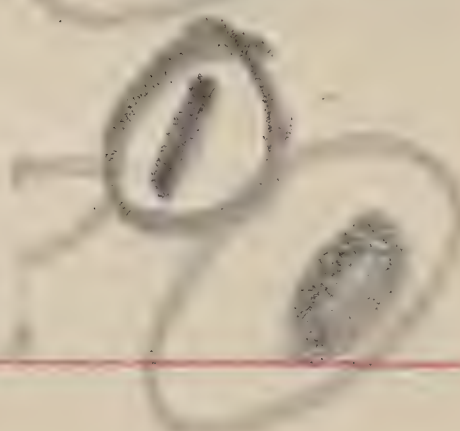


X/244 - Epidendrum -

Fls. pale yellow



X/245 - Epidendrum -



SEEDING by WITH OVARY

FERTILIZED WITH Flower

only in bud -



X/246 - ORCHID - Flower.

WHITE - Dotted pink ①

X/247 - Epidendrum - Fls. ②

GREEN - ②

X/248 - ORCHID - Fls. white ①

X/249 - ORCHID ^{Fls.} white ①

X/250 - MAXILLARIA - Fls.

CREAM -

①

X/251 - ORCIDION -

ORISTI - KATHI - Fls. yellow ①

X/252 - MAXILLARIA - Fls.

Sepals & petals. white.

LIP MAROON -

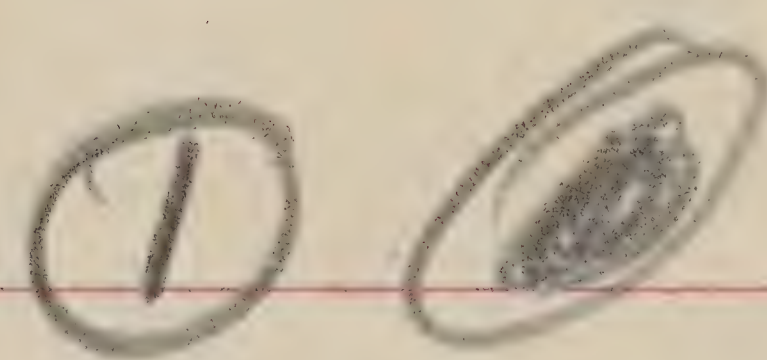
④

X/1253 - MAXILLARIA -

Fls. Sepals & Petals

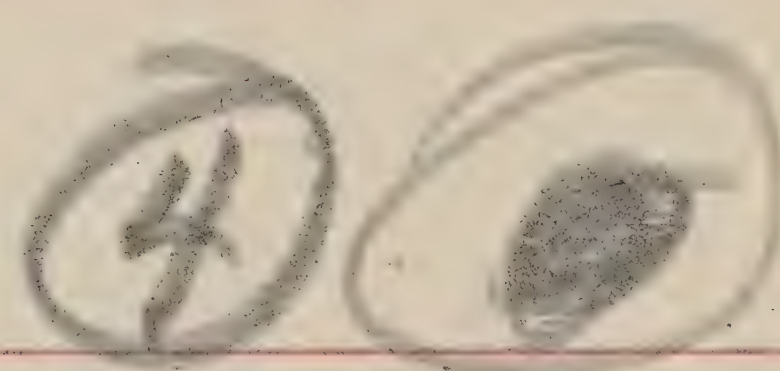
TAN STRIPED BROWN -

Lip BROWN



X/1254 - MAXILLARIA -

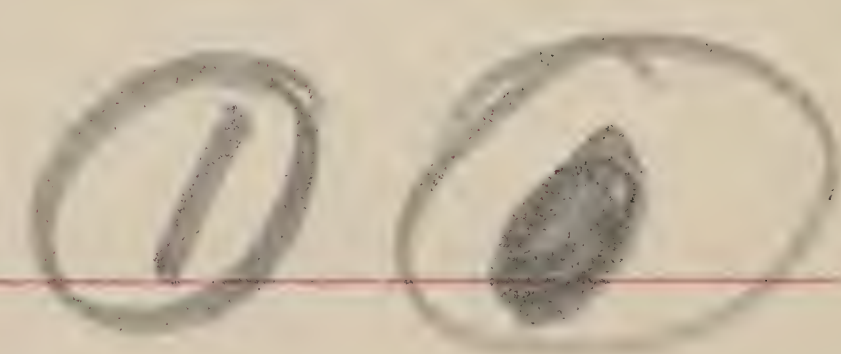
Flowers GREEN -



X/1255 - MAXILLARIA -

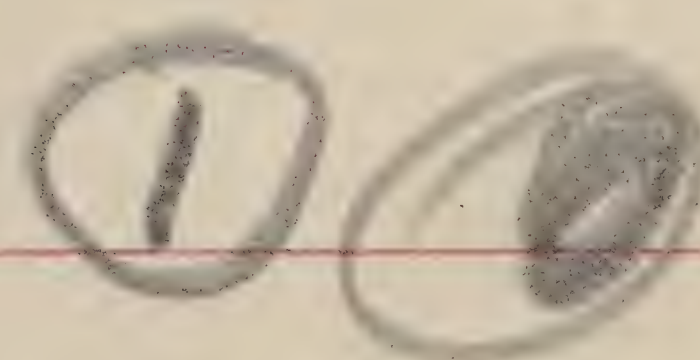
Sepals & petals GREEN

Lip LAVENDER -



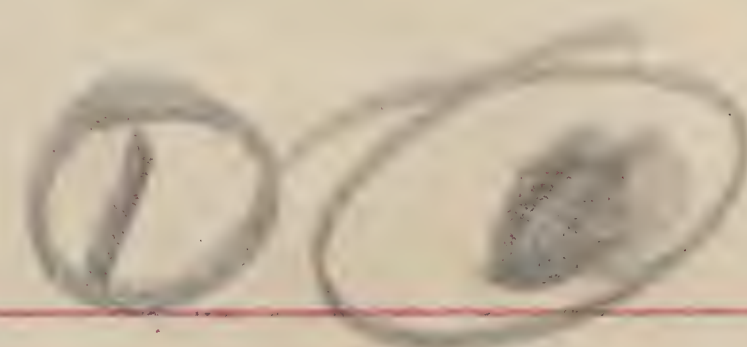
X/1256 - ORCHID - MAXILLARIA -

Fls. BROWN -



X/1257 - MAXILLARIA -

Fls. LAVENDER -



x/258 - DIOSCOREA -

fls. lavender. ①

x/259 - PEPERONIA - EPiphyte ②

x/260 - Fikmy FERN ④

x/261 - FERN - Epiphytic ④

x/262 - FERN EPiphytic ①

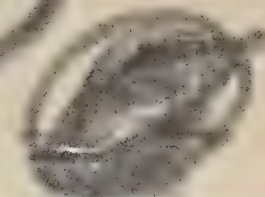
x/263 - FERN - Epiphytic ④

21

①78


TABOYA island - PANAMA BAY

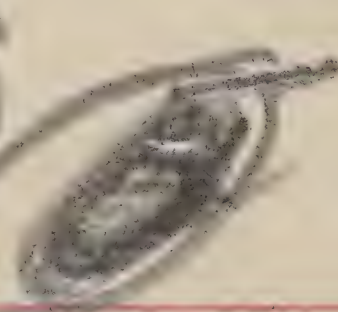
0 - TO 350M - 12-16-38

X/1264 - BEKONIA - Fls. WHITE ⁽⁴⁾ 

X/1265 - COMPOSIT - VINE - Fls.

WHITE

(4) 

X/1266 - VINE - Fls. WHITE ⁽⁴⁾ 

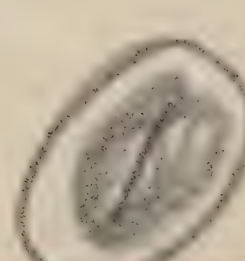
X/1267 - LABIATAE - HERB -

Fls. Blue -

(4) 

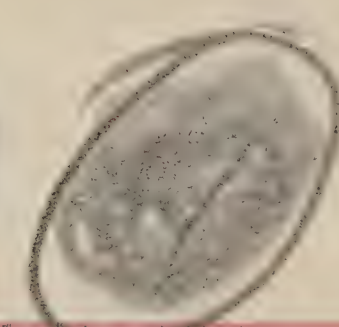
X/1268 - BLETTIA - Fls. pale

lavender -

(1) 

X/1269 - Apocynace - Liana

Corollas pink -

(1) 

X/1270 - COMPOSIT - Fls.

Yellow

24 (1) 

X/1271 - RUBIACE - STOUT HERB

3/4 H - Fls. white - (4) (1)

X/1272 - LABIATAE - Fls. white (4) (1)

X/1273 - LABIATAE - Fls. white (4) (1)

X/1274 - HERB - Fls. white (4) (1)

X/1275 - COMPOSIT - Fls. pink (3) (1)

1276 - LAURACE - WOODY

HERB - Fls. Rose - 1/4 H - (4) (1)

X/1277 - COMPOSIT - Fls. white (4) (1)

X/1278 - EUPATORIUM - Fls.

LAUENDER - 1/4 H - (4) (1)

X/1279 - FRASS - (4) (1)

X/1280 - HABENARIA Fls.

GREEN -

47 (2) (1)

X/281 - Gentianeae - Fls.

purple -

(4) (5)

X/282 - Herb - Fls. white (1) (5)

1283 - LENTUAEE - TALL WOOLLY

HERB 1M - Fls. yellow (4) (5)

X/284 - LABIATAE - HERB -

Fls. Blue -

(4) (5)

X/285 - TETRAMERUM - TALL

STRAGGLING HERB - 1M - Fls

WHITE - STRIPED LAVENDER (4) (5)

X/286 - COMPOSIT - TALL

HERB - 2M - Fls. yellow (4) (5)

X/287 - Piper - TREE

2M -

32 (4) (5)

* 1288 PERSEA - TREE

2011 - SAID TO BE A NATIVE

TREE - FLS. pale yellow (H) (4)

* 1289 - Apocynaceae - vines

FLS. pale yellow - (2) (4)

* 1290 - BRASS - 211 -

(4) (4) X

* 1291 - SHRUB OR WOODY

HERB - 1M - FLS. pale pink (4) (4)

* 1292 - NATIVE - SHRUB - 1' LN

FLS. ORANGE

(4) (4)

* 1293 - COMPOSIT - TALL

WOODY HERB - 211 - FLS.

WHITE -

(4) (4)

28

X 1294 - ACANTHACE - HERB

1M - Fls. purple - (4) (X)

1295 - LECYTHACE - SHRUB

HERB - 1' M - Fls. yellow (4) (X)

X 1296 - POLYTAEE - HERB

Fls. white - (4) (X)

X 1297 - ^{heliotropium} HELIOTROPUM -

HERB - Fls. white (4) (X)

X 1298 - MALVACE - WOODY

HERB - 2M - Fls. yellow (4) (X)

X 1299 - ACANTHACE - HERB -

Fls. lavender - (4) (X)

X 1300 - COMPOSIT -

Fls. yellow 3 (4) (X)

x/301-ARABIS - (4) (4)

x/302-LABIATAE - TALL

HERB - 2m - Fls. LAVENDER (4) (4)

HILLS ABOVE CAMPANA -
PROV. OF PANAMA - 300 TO 800 M -
12-23-38

X/303 - SHRUB - 1 1/2 M - 1/8.

WHITE

(5)✓

X/304 - TREE - 15 M - 1/8. WHITE (1)✓

X/305 - COMPOSIT - weedy HERB
1 1/2 M - 1/8. WHITE -

(5)✓

X/306 - COMPOSIT - woody

HERB - 3 M - 1/8. Yellow (5)✓

X/307 - COMPOSIT - 1/8. purple (5)✓

X/308 - COMPOSIT - SHRUB - 1 1/2 M -
1/8. WHITE -

(5)✓

X/309 - SMALL TREE 4 M -

1/8. yellow

(2)✓

X/310 - SHRUB - 3M - Fls. white (5)✓

X/311 - Asclepias CURRASAICA (1)✓

X/312 - LECYME - Fls yellow (1)✓

X/313 - EUPATORIUM - Fls.

LAUENDER -

(2)✓

X/314 - TREE - 20M - Fls.

Pale GREENISH yellow

(5)✓

X/315 - FERN -

(2)✓

X/316 - GRASS -

(5)✓

X/317 - GRASS -

(5)✓

X/318 - GRASS - 1M -

(3)✓

X/319 - GRASS -

(5)✓

X/320 - FERN -

(5)✓

X/321 - COMPOSIT - SHRUB

3M - Fls. white

(5)✓

X/322 - CONVULVULACEA -

VINE - Fls. white

(5)✓

X/323 - VINE - Fls. white

(3)✓

X/324 - SMALL TREE - 5M -

Fls. white -

(5)✓

X/325 - COMPOSIT - Fls.

white -

(4)✓

X/326 - FERN -

(2)✓

X/327 - FERN -

(2)✓

X/328 - FERN - 26

(1)○

Back



